ARKANSAS STATE HIGHWAY COMMISSION

PROPOSAL DOCUMENTS OF

FOR THE CONSTRUCTION OF

STATE JOB NO.	C48002		
	STATE AID CITY JOB (CODE 9971)		
	HOLLY GROVE OVERLAY (SEL. SECS.) (S)		
CITY STREET	VARIOUS		
IN	MONROE	COUNTY	

Bound herein are the Supplemental Specifications, Special Provisions, Proposal Documents and Schedule of Items applicable to this proposed construction contract.

Applicable to this proposed construction contract, but not bound herein, are the Arkansas State Highway Commission Standard Specifications for Highway Construction, Edition of 2014, and the Construction Plans.

12/11/14 Rev. 03/18/15 Rev. 11/17/17



CAUTION TO BIDDERS

Please review Section 102 of the Standard Specifictions, 2014 Edition for Bidding Requirements and Conditions. <u>Mistakes or omissions can be costly.</u> Important items for you to check are included in, but not limited to, those listed below. This checklist is furnished only to assist you in submitting a proper bid. Check as you read.

☐ Have you acknowledged all Addenda by email or fax?

,
Is the unit price entered appropriate for the item?
Have you entered a unit price for each bid item except in the case of authorized alternate pay items? (A zero bid (\$0.00) is a valid price and will be considered.)
Have you checked the Schedule of Items for various pay items that may have a minimum or maximum unit bid price? (Refer to the Standard Specifications for further information concerning these items)
✓ Asphalt Binder
✓ Relocating Precast Concrete Barrier
✓ Water
✓ Mobilization
Have you limited your bid for Mobilization to five percent (5%) of the subtotal?
For Federal-aid projects, did you complete the Certification for Federal aid Contracts?
Prior to submitting your bid, did you check for error messages, and are all the folders "green"?
If submitting a paper copy of the Proposal Guaranty (Bid Bond) is it signed by an officer of your company <u>AND</u> the Surety Agent?
Did you ensure your Proposal Guaranty (if you are submitting a paper bond) will arrive prior to the time and date stated on Page 2 of the Proposal Documents?

1-17-08

Revised: 6-1-09 Revised: 2-15-12 Revised: 1-15-15 Revised: 5-26-16 Revised: 11-17-17

ARKANSAS DEPARTMENT OF TRANSPORTATION

NOTICE OF NONDISCRIMINATION

The Arkansas Department of Transportation (Department) complies with all civil rights provisions of federal statutes and related authorities that prohibit discrimination in programs and activities receiving federal financial assistance. Therefore, the Department does not discriminate on the basis of race, sex, color, age, national origin, religion (not applicable as a protected group under the Federal Motor Carrier Safety Administration Title VI Program), disability, Limited English Proficiency (LEP), or low-income status in the admission, access to and treatment in the Department's programs and activities, as well as the Department's hiring or employment practices. Complaints of alleged discrimination and inquiries regarding the Department's nondiscrimination policies may be directed to Joanna P. McFadden Section Head – EEO/DBE (ADA/504/Title VI Coordinator), P. O. Box 2261, Little Rock, AR 72203, (501)569- 2298, (Voice/TTY 711), or the following email address: joanna.mcfadden@ardot.gov

Free language assistance for Limited English Proficient individuals is available upon request.

This notice is available from the ADA/504/Title VI Coordinator in large print, on audiotape and in Braille.

Arkansas Department of Transportation Supplemental Specifications and Special Provisions Listing State Job Number C48002

The following supplemental specifications and special provisions for this project supplement the standard specifications, edition of 2014. In case of conflict, the supplemental specifications and special provisions shall govern.

ERRATA	ERRATA FOR THE BOOK OF STANDARD SPECIFICATIONS
JOB SP	BIDDING REQUIREMENTS AND CONDITIONS
JOB SP	SETTLEMENT AGREEMENTS
JOB SP	MANDATORY ELECTRONIC CONTRACT
JOB SP	MANDATORY ELECTRONIC DOCUMENT SUBMITTAL
JOB SP	ADJUSTMENT OF QUANTITIES FOR STATE-AID STREET PROJECTS
JOB SP	FLEXIBLE BEGINNING OF WORK (PAVEMENT PRESERVATION, CITY AID, AND STATE AID PROJECTS)
JOB SP	SUBMISSION OF ASPHALT CONCRETE HOT MIX ACCEPTANCE TEST RESULTS
JOB SP	BROADBAND INTERNET SERVICE FOR ASPHALT CONCRETE PLANT
JOB SP	WARM MIX ASPHALT
JOB SP	DENSITIES FOR ACHM SURFACE COURSE
JOB SP	RECYCLED ASPHALT SHINGLES
JOB SP	PLASTIC PIPE
SP 108-1	LIQUIDATED DAMAGES
SS 100-3	CONTRACTOR'S LICENSE
SS 100-4	DEPARTMENT NAME CHANGE
SS 102-2	ISSUANCE OF PROPOSALS
SS 108-2	WORK ALLOWED PRIOR TO ISSUANCE OF WORK ORDER
SS 306-1	QUALITY CONTROL AND ACCEPTANCE
SS 400-1	TACK COATS
SS 400-4	DESIGN AND QUALITY CONTROL OF ASPHALT MIXTURES
SS 400-5	PERCENT AIR VOIDS FOR ACHM MIX DESIGNS
SS 400-6	LIQUID ANTI-STRIP ADDITIVE
SS 410-1	CONSTRUCTION REQUIREMENTS AND ACCEPTANCE OF ASPHALT CONCRETE PLANT MIX COURSES
SS 410-2	DEVICES FOR MEASURING DENSITY FOR ROLLING PATTERNS
SS 604-1	RETROREFLECTIVE SHEETING FOR TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES
SS 606-1	PIPE CULVERTS FOR SIDE DRAINS

Date Estimated: 2/7/2019

Date Revised:

02-27-14 Rev. 10-24-14 Rev. 02-12-15 Rev. 06-08-15 Rev. 11-17-17 Rev. 09-13-18

ARKANSAS DEPARTMENT OF TRANSPORTATION

SUPPLEMENTAL SPECIFICATION

ERRATA FOR THE BOOK OF STANDARD SPECIFICATIONS

Errors noted in the printed book of Standard Specifications for Highway Construction, Edition of 2014, are listed below and this publication is hereby revised as follows:

- Page 124: The third sentence of the first paragraph of Subsection 110.03(c) should read: The Engineer will make a decision within 10 business days concerning the necessity or practicability of the request.
- Page 195: The sixth paragraph of subsection 303.02 should read: For Classes 1 through 8 materials, the fraction passing the #200 (0.075 mm) sieve shall not be greater than three-fourths of the fraction passing the #40 (0.0425 mm) sieve. For Classes 3 through 8, the fraction passing the #40 (0.425 mm) sieve shall have a liquid limit not greater than 25.
- Page 363: In the second paragraph of Subsection 502.02, the reference to ASTM 775 should be replaced by "ASTM A 775".
- Page 636: In the second paragraph of Subsection 730.02, the references to AASHTO M 183 should be replaced with ASTM A36.
- Page 637: The last sentence of the second paragraph of Subsection 730.03 should read: All bolts, nuts, and washers shall be galvanized according to AASHTO M 232 or ASTM B 695, Class 40 or 50.
- Page 767: In the fourth paragraph of Subsection 807.06(a), the reference to ASTM B595 should be replaced by "ASTM B695".
- Page 841: Subsection 817.04(a) should read: The treatment of lumber and timber shall meet the applicable requirements of the current edition of the AWPA, Standards U1, Commodity Specification E, Use Category UC4C.

03-18-15 09-09-16 Rev., 10-27-17 Rev., 11-16-17 Rev., 05-03-18 Rev., 12-06-18 Rev.

ARKANSAS DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

JOB NO. C48002

BIDDING REQUIREMENTS AND CONDITIONS

Section 102 of the Standard Specifications for Highway Construction, Edition of 2014, is hereby amended as follows:

The fourth sentence of the second paragraph of **Subsection 102.01** is hereby deleted, and the following substituted therefore:

Prospective bidders may file a questionnaire at any time; however, prospective bidders will not be given authorization to submit a proposal unless a rating has been extended based on an acceptable questionnaire.

The last paragraph of **Subsection 102.01** is hereby deleted.

The second sentence of **Subsection 102.02** is hereby deleted, and the following substituted therefore:

The Notice to Contractors will contain a description of the proposed work, and information regarding access to proposal documents, plans, specifications, and the amount and nature of the proposal guaranty.

Subsection 102.03 is hereby deleted, renamed **Contents of Proposal Documents**, and the following substituted therefore:

The proposal documents will state the location and description of the contemplated construction and will show the estimate of the various quantities and kinds of work to be performed or materials to be furnished, and will have a schedule of items. The proposal documents will state the time in which the work must be completed, the amount of the proposal guaranty, and the date and time of the letting of work. The documents will also include any special provisions or requirements that vary from or are not contained in the standard specifications.

All forms included in the proposal documents are considered a part thereof. The plans, specifications, and other documents designated in the proposal documents will be considered a part of the proposal whether included or not.

The first through fourth paragraphs of **Subsection 102.04** are hereby deleted, and the following substituted therefore:

To become an eligible bidder, prospective bidders must be registered to bid in Arkansas with Bid Express. Prospective bidders must also contact the Program Management Division at (501) 569-2261 during regular business hours between the date the project is advertised and 4:30 p.m. on the day prior to the scheduled bid opening to request to become eligible to bid specific projects. Only prequalified contractors or their authorized representative may request to become an eligible bidder.

03-18-15 09-09-16 Rev., 10-27-17 Rev., 11-16-17 Rev., 05-03-18 Rev., 12-06-18 Rev.

ARKANSAS DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

JOB NO. C48002

BIDDING REQUIREMENTS AND CONDITIONS

If the prospective bidder's prequalification rating is not "unlimited", the bidder shall file a certification with the Department citing all contracts in force and the unfinished value of such work. A prospective bidder will not be allowed to submit a proposal until a certification for the current bidding period is on file and the amount of work the contractor may be allowed to undertake is determined. The contractor's prequalification rating, less the unfinished value of all contracts in force, will determine the amount of additional work that the contractor may be allowed to undertake. A contractor will not be allowed to submit a proposal on an individual project for which the estimated cost is more than the amount that the contractor may be allowed to undertake, but the contractor will be allowed to submit a proposal on more than one project, providing that the estimated cost of each project is not more than the amount that the contractor may be allowed to undertake. In the event a contractor submits a low bid on more than one project and the aggregate amount is greater than the amount the contractor may be allowed to undertake, the Commission will exercise its discretion in the award of a particular project or projects.

A charge will be assessed for authorization to submit a proposal, paper copies of the proposal documents, and plans issued. These services are provided during regular business hours until 4:30 p.m. on the day prior to the scheduled bid opening at the Arkansas Department of Transportation, 10324 Interstate 30, Little Rock, Arkansas 72209, (501) 569-2261. Payment shall be made at the time services are provided or upon receipt of statement therefore. No refund will be allowed for bids not submitted or for plans or proposal documents returned.

The second sentence of the first paragraph of **Subsection 102.06** is hereby deleted, and the following substituted therefore:

The bidder is expected to examine carefully the site of the proposed work, the proposal documents, plans, specifications, supplemental specifications, and special provisions before submitting a proposal.

The first paragraph of **Subsection 102.07** is hereby deleted, and the following substituted therefore:

The proposal shall only be submitted through the internet bidding service, Bid Express. The bidder shall specify a unit price in figures for each pay item for which a quantity is given. A unit price of "zero" (\$0.00) is a valid price and will be considered. A blank unit price is not considered valid. The unit bid price should not be carried beyond 1 cent (\$0.01). Any figures on the unit bid price beyond 1 cent will be dropped.

The second and third paragraphs of **Subsection 102.07** are hereby deleted.

09-09-16 Rev., 10-27-17 Rev., 11-16-17 Rev., 05-03-18 Rev.,

12-06-18 Rev.

ARKANSAS DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

JOB NO. C48002

BIDDING REQUIREMENTS AND CONDITIONS

The fifth paragraph of **Subsection 102.07** is hereby deleted, and the following substituted therefore:

The bidder's proposal must be submitted with a digital signature containing the name of the individual, one or more members of the partnership, one or more members or officers of each firm representing a joint venture, or one or more officers of a corporation, or by an agent of the Contractor legally qualified and acceptable to the Department.

The sixth paragraph of **Subsection 102.07** is hereby deleted, and the following substituted therefore:

If the proposal is submitted with a digital signature of any person who is not listed in the bidder's Prequalification Questionnaire (Questionnaire Form) as the individual, as a partner of a partnership, or as an officer of a corporation, authorization for such submittal should be on file with the Department prior to the download of bids. This authorization shall be made before the downloading of bids and be in the form of a Power of Attorney duly executed and signed by an official with power to constitute such authority.

The last sentence of the seventh paragraph of **Subsection 102.07** is hereby deleted, and the following substituted therefore:

Those items of Asphalt Binder that are subject to a minimum bid price will bear the note "(Minimum bid price is \$120.00 per ton)" within the Schedule of Items of the proposal documents.

The first sentence of the ninth paragraph of **Subsection 102.07** is hereby deleted, and the following substituted therefore:

The proposal documents for all federal aid projects will contain a bidders list.

The last sentence of the ninth paragraph of **Subsection 102.07** is hereby deleted, and the following substituted therefore:

The information provided will not be used for contract awarding purposes but must be provided before the Contractor will be given authorization to submit proposals for future lettings.

Subsection 102.08 Irregular Proposals is hereby deleted, and the following substituted therefore:

- (a) Proposals will be considered irregular and will be rejected for the following reasons:
 - (1) If the proposal does not contain a unit price for each pay item listed except in the case of authorized alternate pay items.
 - (2) If the proposal is not digitally signed by an authorized representative of the firm.

11-16-17 Rev., 05-03-18 Rev.,

12-06-18 Rev.

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SPECIAL PROVISION

JOB NO. C48002

BIDDING REQUIREMENTS AND CONDITIONS

- (3) If the proposal is not accompanied by the proper proposal guaranty.
- (4) If a proposal is received from an individual, firm, partnership, or corporation with an interest, as principal, in another proposal for the same project.
- (5) If the proposal is not accompanied by the Certification to Submit DBE Participation.
- (b) Proposals will be considered irregular and may be rejected for the following reasons:
 - (1) If the proposal is not accompanied by a bid schedule and bid schedule narrative as required in the proposal documents.
 - (2) Unbalanced proposals in which the prices for some items are out of proportion to the reasonable costs representative of those items.
 - (3) If there are irregularities of any kind that may tend to make the proposal incomplete, indefinite, or ambiguous as to its meaning.

The first sentence of **Subsection 102.09** is hereby deleted and the following substituted therefore:

No proposal will be considered by the Commission unless a guaranty in the form of a bank draft, certified check, or cashier's check drawn on a solvent bank or trust company, or a bidder's paper bond executed by an approved surety company has been received by the Program Management Division prior to the download of bids.

The following paragraph is hereby added after the first paragraph of **Subsection 102.09**:

Electronic bid bonds are allowed. The prospective bidder should verify their bid bond in their proposal prior to submission.

Subsection 102.10 is hereby deleted and the following substituted therefore:

The proposal shall only be submitted through the internet bidding service, Bid Express.

Subsection 102.11 is hereby deleted, and the following substituted therefore:

A bidder may withdraw or modify a proposal after it has been submitted to Bid Express, up to the time set for the deadline for proposals to be received. A proposal may also be withdrawn if the Commission fails to make an award within 40 calendar days after the date of downloading.

11-16-17 Rev., 05-03-18 Rev., 12-06-18 Rev.

ARKANSAS DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

JOB NO. C48002

BIDDING REQUIREMENTS AND CONDITIONS

Subsection 102.12 is hereby deleted, renamed Downloading of Proposals, and the following substituted therefore:

Proposals will be downloaded and then posted on the Department's website at the time and place indicated in the Notice to Contractors.

The last sentence of **Subsection 102.15** is hereby deleted, and the following substituted therefore:

In any case, the prospective bidders will be contacted prior to the download of bids.

ARKANSAS DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

JOB NO. C48002

SETTLEMENT AGREEMENTS

Any firm, partnership, or corporation that has a common officer, owner, or partner with any contractor that is a party to a settlement agreement with the Department is bound by the terms of the contractor's settlement agreement.

ARKANSAS DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

JOB NO. C48002

MANDATORY ELECTRONIC CONTRACT

Paper Contract Documents and Forms will not be accepted.

The Department will only accept and execute an electronic contract for this project through Doc Express, a paperless contracting system. Prospective bidders will need to contact Doc Express to set up an account prior to the bid opening date. The toll-free phone number for Doc Express is 1-888-352-2439 and their website address is www.docexpress.com.

Section 103 of the Standard Specifications for Highway Construction, Edition of 2014, is hereby amended as follows.

The first sentence of **Subsection 103.06(a)** is hereby deleted, and the following substituted therefore:

The Contract shall be electronically signed by the successful bidder and electronically submitted to the Program Management Division, Construction Contract Procurement Section, together with the required bonds and proof of liability insurance, within 10 business days after the notice of award has been issued.

Subsection 103.08(d)(3)d. is hereby deleted, and the following substituted therefore:

Documentation of the bidder's commitment to use a DBE subcontractor whose participation it submits to meet a contract goal; and

Subsection 103.08(d)(3)e. is hereby deleted, and the following substituted therefore:

Document confirmation from the DBE that it is participating in the contract as provided in the Contractor's commitment.

Subsection 103.08(d)(5) is hereby deleted, and the following substituted therefore:

The preceding information shall be submitted directly to the Arkansas Department of Transportation, Program Management Division, via Doc Express.

02-23-16 07-12-17 Rev. 11-16-17 Rev. 12-06-18 Rev.

ARKANSAS DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

JOB NO. C48002

MANDATORY ELECTRONIC DOCUMENT SUBMITTAL

Paper Document Submittals will not be accepted.

The Department will only accept electronically-submitted documents for consideration on this project. All correspondence and submittals to the Department shall be submitted through Doc Express, a paperless contracting system. When signed originals are required, the original shall be the document uploaded to Doc Express and the signature shall be the electronic signature applied through Doc Express. The Contractor shall use the same organizational account for project documentation as used to fulfill the requirements of the Mandatory Electronic Contract Special Provision. The toll-free phone number for Doc Express is 1-888-352-2439 and their website address is www.docexpress.com.

Any reference in the Standard Specifications to document submittal in writing or by U.S. Mail, facsimile, or in person is hereby amended to require that such documents be submitted using Doc Express with the following exceptions:

- Material delivery tickets which are used for payment or for field verification shall be submitted on paper as required by the Standard Specifications for Highway Construction, Edition of 2014.
- Any document with specific submittal requirements in state and/or federal law or federal regulations that conflict with the requirements of this Special Provision shall be submitted in accordance with such state and/or federal law or federal regulations.

A user guide is available on the Department's web page to assist Contractors with the use of Doc Express. The "Contractor Guide to Using Doc Express" is available on the Department's web page at this link:

http://ardot.gov/construction_division/Contractor_Guide_DocExpress.pdf.

The Contractor may provide access for subcontractors to view and submit items in Doc Express by following the instructions provided in the "Contractor Guide to Using Doc Express". Once an organizational account is activated and the Contractor provides access to the contract, a subcontractor may submit documents to the Contractor in Doc Express by uploading the electronic documents as directed in the User Guide. Any documents uploaded by the subcontractor must be then retrieved and published by the Contractor within Doc Express for further action by the Engineer. The Engineer will not review or take any actions on any documents submitted by the subcontractor until the document has been appropriately submitted by the Contractor.

Any submittals, documents, subcontracts, proposals, working drawings, or any other items submitted by the Contractor within Doc Express are not considered approved by the Engineer until written notification of the approval is published by the Engineer in the "CON-Correspondence—From Department to Contractor" drawer in Doc Express. Any action taken by the Contractor prior to this notification is taken at the Contractor's own risk.

The Department's System Administration team has no authority to take action on any documents submitted to the system. Access for this team is for management of the application only. Knowledge of any document submitted is not imputed to the Department by the knowledge of Systems Administration.

The requirements of this Special Provision shall supersede the requirements of all other Special Provisions unless such Special Provision includes a stated exception to this Special Provision.

01-16-14 02-27-14 Rev. 11-16-17 Rev. 12-06-18 Rev.

ARKANSAS DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

JOB NO. C48002

ADJUSTMENT OF QUANTITIES FOR STATE-AID STREET PROJECTS

Section 104 of the Standard Specifications for Highways Construction, Edition of 2014, is hereby amended as follows:

The following is added as the last paragraph of **Subsection 104.02**:

On State-Aid Street Projects, funding amounts are limited for each city. The Commission reserves the right to increase or decrease the quantities on a project at the time of the award in order to utilize all funds that are available or to ensure that funds are available to pay for the work performed. For projects which include more than one city, each city may have a different funding limit. On those projects the Commission reserves the right to increase or decrease the quantities placed within each city in order to utilize all funds that are available or to ensure that funds are available to pay for the work performed. The Contractor shall perform the work as increased or decreased in each city and no allowance will be made for anticipated profits on increases or decreases so incurred.

10-25-13 02-27-14 Rev. 11-16-17 Rev. 09-13-18 Rev. 12-06-18 Rev.

ARKANSAS DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

JOB NO. C42008

FLEXIBLE BEGINNING OF WORK (PAVEMENT PRESERVATION, CITY AID, AND STATE AID PROJECTS)

Section 108, Prosecution and Progress, of the Standard Specifications for Highway Construction, Edition of 2014, is hereby amended as follows:

Subsection 108.02 (b) Work Order.

- (2) The last bullet stating "Erection of advance warning signs." is hereby deleted and the following substituted therefor:
 - The Contractor may elect to erect advance warning signs for their convenience after the issuance of the work order but prior to the date that work will begin, provided that:
 - i. The signs are covered and kept properly covered until the work begins. Failure to cover the signs after initial installation will constitute the Contractor's intent to begin work and time charges will be assessed starting that date. The sign covering shall cover the face completely and prevent the message from being read during both day and night conditions and shall not damage the sheeting face. The covering materials shall be heavy duty, opaque and either dark green, brown, or black in color.
 - ii. No progress payments will be made for the Signs or Mobilization until after the work begins (for the purpose of this special provision, beginning of work is defined as the beginning of contract work other than the installation of signs and other traffic control devices, such as paving operations, shoulder construction operations, cold milling, etc.)
- (4) b. Working Day Contract. is hereby deleted and the following substituted:
- b. Working Day Contract. Unless the Contractor is otherwise advised in writing, the Work Order for a working day contract shall become effective on the fifteenth calendar day following the execution of the Contract by the Department. Should the effective date fall on Saturday, Sunday, a legal holiday designated in Subsection 101.01(c), Monday following a holiday on Sunday, or Friday preceding a holiday on Saturday, the effective date shall be the next work day. The written Work Order from the Engineer will follow with the effective date being as specified. The assessment of contract time, according to Subsection 108.06, will commence when the Contractor begins work or on September 16, 2019 if the Contractor has not commenced work. The Contractor will submit written notification to the Engineer five days prior to commencing work.
 - (4) Subsection 108.02(c) is hereby deleted.

03-11-10 02-27-14 Rev. 11-16-17 Rev. 12-06-18 Rev.

ARKANSAS DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

JOB NO. C48002

SUBMISSION OF ASPHALT CONCRETE HOT MIX ACCEPTANCE TEST RESULTS

Division 106 of the Standard Specifications for Highway Construction, Edition of 2014, is hereby amended as follows:

The following is hereby added to **Subsection 106.04**, **Acceptance of Materials**:

All ACHM Contractor Acceptance Tests shall be submitted electronically by use of the ACHM Microsoft Excel Spreadsheet for Contractors/Suppliers and on paper.

The ACHM Microsoft Excel Spreadsheet for Contractors/Suppliers can be downloaded from the following website: http://www.ardot.gov/contracts/contractor_information/contractor.aspx.

To download this file and the supporting documentation, click on the link labeled Contractor_ACHM.exe which is listed under User Help File and Utilities on the website noted above.

Use of this file requires Microsoft Excel 2000, 2003, or 2007.

The preferred method of transmitting the file is to e-mail the completed ACHM Microsoft Excel Spreadsheet for Contractors/Suppliers to the Department's ACHM Plant Inspector assigned to the project. It is also acceptable to transmit the file by Compact Disk (CD) or other electronic device. Regardless of the method of transmission used, the signed paper acceptance tests must be provided to the Resident Engineer.

Any questions or issues arising from the use of this file should be referred to the Resident Engineer.

04-14-11 02-27-14 Rev. 11-16-17 Rev. 12-06-18 Rev.

ARKANSAS DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

JOB NO. C48002

BROADBAND INTERNET SERVICE FOR ASPHALT CONCRETE PLANT

Section 409.03(h) of the Standard Specifications for Highway Construction, Edition of 2014, is hereby amended as follows:

The following bullet is added under detailed requirements:

Broadband Internet Service shall be provided.

The Broadband Internet Service shall be provided with an Internet Protocol (IP) address which is reachable on the global Internet (public) and which is permanently assigned (static). The Contractor is not required to provide this service if an IP address which is both static and public is not available.

If this service is not available at the beginning of a project but becomes available during the life of the project, the Contractor shall provide the service immediately from the date of availability.

The data transfer rate shall be 3 megabits per second (Mbps) download and 500 kilobits per second (kbps) upload, or higher, with latency not to exceed 150 milliseconds. If the Broadband Internet Service meets all of the requirements of this specification except for the data transfer rate and/or latency, then the best performing available connection shall be provided.

Prior to the selection of the Broadband Internet Service provider, the Contractor shall submit to the Resident Engineer, in writing, the proposed method for providing Broadband Internet Service. The Resident Engineer shall review this submittal and respond in writing regarding the acceptability of the proposed method.

The Broadband Internet Service shall be provided with equipment providing one Ethernet port.

02-14-11 02-27-14 Rev. 11-16-17 Rev. 12-06-18 Rev.

ARKANSAS DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

JOB NO. C48002

WARM MIX ASPHALT

<u>DESCRIPTION</u>: The Department will allow the use of Warm Mix Asphalt (WMA). All provisions for the production and placement of conventional HMA mixtures as stipulated in Section 410 Construction Requirements and Acceptance of Asphalt Concrete Plant Mix Courses of the Standard Specifications for Highway Construction, Edition 2014, are applicable except as noted below.

Section 410 Construction Requirements and Acceptance of Asphalt Concrete Plant Mix Courses of the Standard Specifications for Highway Construction, Edition of 2014, is hereby amended as follows:

Section 410.03: Replace the third sentence with "WMA production temperatures at the plant shall be according to the Contractor's approved mix design but may be adjusted based on recommendations of the WMA additive/process manufacturer."

Add the following paragraph: "Implementation of best management practices in the control of aggregate moisture content prior to introduction to the drying or mixing drum is highly recommended in order to achieve the maximum benefit of WMA technology."

Section 410.07: Replace the last sentence of the first paragraph with "Spreading and finishing temperatures shall be according to the Contractor's approved mix design, but in no case shall the WMA be placed at a temperature less than 220° F."

ARKANSAS DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

JOB NO. C48002

DENSITIES FOR ACHM SURFACE COURSE

Division 400 of the Standard Specifications for Highway Construction, Edition of 2014, is hereby amended as follows:

The following is hereby added as the second paragraph of **Subsection 407.04**, **Construction Requirements and Acceptance**:

On city street projects, the Engineer may reduce the required minimum density of the ACHM Surface Course to 90% of the maximum theoretical density based on actual field conditions which would either prevent obtaining 92.0% of the maximum theoretical density or when damage to underlying utilities and/or subgrade is imminent. However, no reduction from the specified density of 92.0% will be permitted on ACHM placed on a subgrade, an underlying base course, or layers of ACHM constructed by the Contractor under this same contract.

11-22-10, 06-17-13 Rev., 02-05-14 Rev., 05-05-15 Rev., 11-16-17 Rev., 12-06-18 Rev.

ARKANSAS DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

JOB NO. C48002

RECYCLED ASPHALT SHINGLES

<u>DESCRIPTION</u>: This specification covers the use of Recycled Asphalt Shingles (RAS) in Asphalt Concrete Hot Mix (ACHM).

MATERIALS: ACHM utilizing RAS shall meet all of the requirements of Sections 404, 409, 410, and 416 and the requirements of Section 405, 406, or 407 for the mixture type specified on the plans. The mix design will follow AASHTO MP 23-14 and AASHTO PP 78-14 except as follows:

- (1) A maximum of three (3) percent RAS by total mix weight will be allowed in any mix design. The amount of RAS will be included in the total Recycled Asphalt Pavement (RAP) percentage if RAP is used.
- (2) Shingle material shall be processed so that 100 percent passes the 3/8" (9.5 mm) sieve and ninety-five (95) percent passes the No. 4 (4.75 mm) sieve.
- (3) Pre-consumer, or manufacturer waste, shingles may be used in mix designs requiring PG 64-22 binder only.
- (4) Post-consumer, or tear-off, shingles may be used in mix designs requiring PG 64-22 binder only.
- (5) Pre- and post-consumer shingles may not be combined in mix designs.
- (6) Tear-off shingles shall be acquired from residential sources only and shall have been produced after 1980. In no case shall a roofing material containing rubber or rubber-like polymer components be used as RAS in asphalt mixes.
- (7) When using tear-off shingles, one stockpile test per lot of mix shall be conducted to confirm the binder content and gradation of the RAS product, and the sample shall be representative of the RAS material entering the production process for the lot tested. Binder content and gradation shall be determined using ARDOT 450 or AASHTO T 308. If AASHTO T 308 is used, the sample size shall be 400 grams, and the sample shall be oven dried to a constant mass (at a temperature not exceeding 140°F) prior to testing. Shingle fibers shall be removed from the extracted sample prior to gradation testing.

05-23-12 02-27-14 Rev. 11-16-17 Rev. 12-06-18 Rev.

ARKANSAS DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

JOB NO. C48002

PLASTIC PIPE

Section 606 Pipe Culverts of the Standard Specifications for Highway Construction, Edition of 2014, is hereby expanded to include the following:

Subsection 606.02(d)(1) is hereby deleted and the following is substituted therefore:

(1) Polyethylene Pipe. The manufacture and furnishing of high density polyethylene pipe ranging in diameter from 18" (450mm) minimum to 48" (1200mm) maximum shall be according to AASHTO M 294, Type S. Polyethylene pipe shall have a corrugated outer shell with an essentially smooth wall waterway. Couplings and fittings supplied or recommended by the pipe manufacturer shall be used.

Subsection 606.02(d)(2) is hereby deleted and the following is substituted therefore:

(2) PVC Pipe. The manufacture and furnishing of PVC pipe ranging in diameter from 18" (450mm) minimum to 36" (900mm) maximum shall be according to ASTM F949, Cell Classification 12454. PVC pipe shall have annular or helical projections or ribs on the outer surface and an essentially smooth wall waterway. Couplings and fittings supplied or recommended by the pipe manufacturer shall be used.

Subsection 606.02(k) is hereby deleted and the following is substituted therefore:

(k) Structural Bedding and Structural Backfill for Plastic Pipe Culverts shall meet the requirements for the material shown in the Plans and shall meet the requirements as shown in Subsection 302.02 of these Specifications except that the maximum particle size shall be 1" (25.4 mm) for Structural Bedding and 1 ½" (37.5 mm) for Structural Backfill.

Subsection 606.03.(a) second paragraph is hereby deleted and the following is substituted therefore:

Pipe culverts under the roadbed shall be so placed that the minimum depth of cover for pipe of any diameter or type shall be not less than the minimum cover as shown in the Plans, including a minimum of 12" (304.8 mm) of pavement and/or base.

The following is added as Subsection 606.03(h):

(h) Acceptance Testing of Installed Polyethylene and PVC Pipe. All plastic pipes installed for storm drainage systems shall be tested for acceptance by the Contractor using a method consisting of, but not limited to, the following: electronic deflectometers, video cameras, or go/no-go mandrel. These tests shall be conducted not less than 30 days following installation of the pipe. The Engineer will witness all tests.

At least 10 percent of the total quantity of each size of plastic pipe installed for storm drainage on the project shall be inspected for deformations using one of the approved methods listed above. The Engineer may select the areas to be tested. If the test indicates excessive deflection in the selected length of pipe, the Engineer may require additional lengths of pipe be tested in increments of 10 percent of the total installed length. Any pipes with a reduced diameter of 5 percent of the actual inside pipe diameter shall be removed and relayed, if undamaged, or replaced with a new pipe at no cost to the Department. Relayed pipe and new pipe shall be retested at no cost to the Department.

05-23-12 02-27-14 Rev. 11-16-17 Rev. 12-06-18 Rev.

ARKANSAS DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

JOB NO. C48002

PLASTIC PIPE

If the mandrel test is selected, a nine-point mandrel with a diameter equal to 95 percent of the nominal diameter of the pipe shall be used. The mandrel shall be of a shape similar to that of a true circle enabling the gauge to pass through a satisfactory pipeline with little or no resistance and shall be designed to prevent tipping from side to side and to prevent debris build-up from occurring between channels of the adjacent fins or legs. Each end of the mandrel shall have fasteners for attaching pulling cables. The mandrel shall have nine various sized fins or legs of appropriate dimensions for various diameter pipes. Each fin or leg shall have a permanent marking that states its designated pipe size. For acceptance testing, the mandrel must pass through the entire section between manholes or other structures in one pass when pulled by hand without the use of excessive force.

04-12-07 12-03-08 Rev. 01-06-11 Rev. 01-28-13 Rev. 11-16-17 Rev. 12-06-18 Rev.

ARKANSAS DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

LIQUIDATED DAMAGES

As specified in the Contract, liquidated damages for this project will be as shown in the following tables:

WORKING DAY PROJECTS

ORIGINAL CONTRACT AMOUNT				RATE	
	FROM MORE THAN	TO A	TO AND INCLUDING		
\$	0	\$	50,000	\$ 400	
	50,000		100,000	700	
	100,000		500,000	800	
	500,000		1,000,000	1,100	
	1,000,000		2,000,000	1,300	
	2,000,000		5,000,000	1,500	
	5,000,000		10,000,000	1,900	
	10,000,000		15,000,000	2,000	
	15,000,000		20,000,000	2,100	
	20,000,000			2,500	

FIXED DATE PROJECTS

FIXED DATE PROJECTS					
ORIGINAL CONTRACT AMOUNT				R	ATE
FROM MORE THAN		TO AND INCLUDING			
\$	0	\$	50,000	\$	90
	50,000		100,000		100
	100,000		500,000		200
	500,000		1,000,000		250
	1,000,000		2,000,000		320
	2,000,000		5,000,000		400
	5,000,000		10,000,000		600
	10,000,000				750

12-02-15 SS-100-3 11-16-17 Rev. Page 1 of 1

ARKANSAS DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL SPECIFICATION CONTRACTOR'S LICENSE

Section 102 of the Standard Specifications for Highway Construction, Edition of 2014, is hereby amended as follows:

The third paragraph of Subsection 102.01, Prequalification of Bidders is hereby deleted and the following substituted thereof:

The attention of prospective bidders is directed to Ark. Code Ann. §17-25-101 et seq., Act 150 of the 1965 Acts of Arkansas, being an "Act Regulating the Practice of Contracting in the State of Arkansas", and any subsequent amendments made thereto. When the work offered is financed in whole with State funds and is estimated to cost \$50,000 or more, the prospective bidder must show evidence of license with the Contractors Licensing Board for the State of Arkansas before being furnished with a proposal form.

The third paragraph of Subsection 108.01, Subletting of Contract is hereby deleted and the following substituted thereof:

It shall be the responsibility of the Contractor to determine that all parties performing work amounting to \$50,000 or more are currently licensed by the Contractors Licensing Board for the State of Arkansas.

08-31-17 SS-100-4 11-16-17 Rev. Page 1 of 1

ARKANSAS DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL SPECIFICATION DEPARTMENT NAME CHANGE

All references to the Arkansas State Highway and Transportation Department contained within the Standard Specifications for Highway Construction (Edition of 2014), the Qualified Products List, the Manual of Field Sampling and Testing Procedures, plan sheets, Supplemental Specifications, and all Special Provisions contained in this proposal are hereby deleted and replaced with the title of Arkansas Department of Transportation.

All references to AHTD contained within the Standard Specifications for Highway Construction (Edition of 2014), the Qualified Products List, the Manual of Field Sampling and Testing Procedures, plan sheets, Supplemental Specifications, and all Special Provisions contained in this proposal are hereby deleted and replaced with the abbreviation ARDOT.

All references to the Arkansas State Highway Commission contained within the Standard Specifications for Highway Construction (Edition of 2014), the Qualified Products List, the Manual of Field Sampling and Testing Procedures, the Standard Drawings, plan sheets, Supplemental Specifications, and all Special Provisions contained in this proposal remain in effect.

ARKANSAS DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL SPECIFICATION ISSUANCE OF PROPOSALS

Section 102 of the Standard Specifications for Highway Construction, Edition of 2014, is hereby amended as follows:

Subsection 102.04(j) is hereby deleted and the following is substituted therefore:

(j) If the prospective bidder is the Contractor on a current Contract with the Commission on which Liquidated Damages are being assessed, and there are no pending time extensions warranted to remove the project from Liquidated Damages.

Subsection 102.04(k) is hereby deleted and the following is substituted therefore:

(k) If the prospective bidder has a current Contract in default.

ARKANSAS DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL SPECIFICATION WORK ALLOWED PRIOR TO ISSUANCE OF WORK ORDER

Section 108 of the Standard Specifications for Highway Construction, Edition of 2014, is hereby amended as follows:

Subsection 108.02(b)(2) is hereby deleted and the following is substituted therefore:

- (2) The delivery to the Department for execution of the Contract and bonds properly executed on behalf of the Contractor and surety and the minimum 72 hours advance notice as required above shall constitute the Contractor's authority to begin the following items of work:
 - Mobilization;
 - Preparation of shop drawings and other required submissions;
 - Ordering, fabrication, assembly, and/or stockpiling of materials;
 - Driving Test Piling; and
 - Contract surveying, when Roadway and/or Bridge Construction Control is included in the Contract.
 - Erection of advance warning signs.
 - Installation of netting on structures to prevent nesting of migratory birds in accordance with applicable Special Provisions (if included in the Contract).
 - Set up, installation, and testing of Automated Work Zone Information Systems (if included in the Contract).
 - Off-site area approval process per Section 107.10(c).

Such advance work shall be subject to the Contractor's assumption of the risk of cancellation of the award and the following:

- The Contractor shall, on commencing such operations, take all precautions required for public safety and shall observe all the provisions in the Contract;
- In the event of cancellation of the award, the Contractor shall at Contractor expense do such work as necessary to leave the site in a neat condition to the satisfaction of the Engineer;
- In the event of cancellation of the award, all work performed shall be deemed to be at the Contractor's expense; and
- All work done under this subsection in accordance with the Contract before its execution
 by the Commission will, when the Contract is executed, be considered authorized work
 and will be paid for as provided in the Contract.

Unless otherwise notified in writing, no time will be assessed for work performed prior to the effective date of a Work Order.

No payments will be made prior to the date established by the Engineer under Subsection 109.07, which date will be after the effective date of a Work Order.

The Contractor shall not be entitled to any additional compensation or an extension of time for any delay, hindrance, or interference caused by or attributable to commencement of work before the effective date of a Work Order.

ARKANSAS DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL SPECIFICATION QUALITY CONTROL AND ACCEPTANCE

Division 300 of the Standard Specifications for Highway Construction, Edition of 2014, is hereby amended as follows:

The first sentence of the third paragraph **Subsection 306.03 Acceptance Testing** is hereby deleted and the following substituted therefor:

If the material being furnished is crushed stone the Department will furnish the PL, LL, and PI for the material, further tests for PL, LL, and PI are waived.

ARKANSAS DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL SPECIFICATION TACK COATS

Division 400 of the Standard Specifications for Highway Construction, Edition of 2014, is hereby amended as follows:

Section 401, Prime and Tack Coats and Emulsified Asphalt in Base Course, is hereby modified as follows:

The first sentence of **Subsection 401.03(a)** is hereby deleted and the following substituted therefore:

The surface to be treated with prime or tack coat shall be cleaned of dust, dirt, and loose or foreign material by sweeping with mechanical brooms immediately preceding the application of the prime or tack coat.

Third sentence of **Subsection 401.03(c)** is hereby deleted and the following is substituted therefore:

No dilution beyond that which is part of the emulsification process is permitted. The tack coat shall not be diluted, cut, or otherwise thinned after receipt from the manufacturer's facility.

The fifth sentence of **Subsection 401.03(c)** is hereby deleted and the following substituted therefore:

The rate of application shall be from 0.03 gallon to 0.10 gallon per square yard (0.1 L/sq m to 0.5 L/sq m) of residual asphalt as designated by the Engineer.

Section 410, Construction Requirements and Acceptance of Asphalt Concrete Plant Mix Courses, is hereby modified as follows:

The sixth paragraph of **Subsection 410.05** is hereby deleted and the following substituted therefore:

For foreign material, or when the time lapse between courses is more than 8 hours, the earlier course shall be cleaned and given a tack coat before placing the succeeding course. When directed, the tack coat shall be applied and paid for under Section 401. If directed by the Engineer, a tack coat shall be used even though the elapsed time has been less than 8 hours.

ARKANSAS DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL SPECIFICATION DESIGN AND QUALITY CONTROL OF ASPHALT MIXTURES

Division 400 of the Standard Specifications for Highway Construction, Edition of 2014, is hereby amended as follows:

Section 404, QUALITY CONTROL OF ASPHALT MIXTURES, is hereby modified as follows:

The third paragraph **Subsection 404.04** is hereby deleted and the following substituted therefore:

The accepted mix design shall be field verified by the Contractor at the start of mix production or after an interruption of more than 120 calendar days. The asphalt mixture shall be verified by testing mix that has been produced through the plant using the aggregate proportions shown on the accepted mix design. Production of Department approved mix designs for placement on non-ARDOT projects may be used for mix verification. The Contractor shall notify the Engineer sufficiently in advance for Department personnel to witness all testing of this production and shall provide copies of all test results to the Department.

Section 410, Construction Requirements and Acceptance of Asphalt Concrete Plant Mix Courses is hereby modified as follows:

The first and second sentence of Subsection 410.09, Acceptance of the Payment and Adjustments in Payment, is hereby deleted and the following is substituted therefore:

(a) General. The accepted mix design shall be verified by the Contractor at the start of mix production for that design or after an interruption of more than 120 calendar days. A maximum of 200 tons (200 metric tons) of materials may be placed on the roadway during the verification process.

Section 411, Asphalt Concrete Plant Mix is hereby modified as follows:

The third sentence of Subsection 411.05 (B), Acceptance is hereby amended and the following is substituted therefore:

(b) Acceptance. The accepted mix design shall be field verified by the Contractor at the start of mix production or after an interruption of more than 120 calendar days.

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ARKANSAS DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL SPECIFICATION PERCENT AIR VOIDS FOR ACHM MIX DESIGNS

Division 400 of the Standard Specifications for Highway Construction, Edition of 2014, is hereby amended as follows:

The fourth sentence of Paragraph 1 of Subsection 404.01(b), Design Requirements, is hereby deleted and the following substituted therefor:

The optimum asphalt content is the asphalt binder content at 4% Air Voids (AV).

The first bullet of Paragraph 1 is hereby deleted and the following substituted therefor:

• PG 64-22 and PG 70-22 mixes will be designed using 4% air voids;

The second sentence of Paragraph 2 of Subsection 404.04, Quality Control of Asphalt Mixtures, is hereby deleted and the following substituted therefor:

Adjustments to the accepted mix design to conform to actual production values without re-design of the mixture shall be based on production of the mixture at a target value of 4.0% Air Voids (AV) in specimens and an asphalt binder content not less than that specified in the accepted mix design.

Table 405-1 of **Subsection 405.03 Materials** is hereby deleted and the following substituted therefor:

Table 405-1
Design Requirements for Asphalt Concrete Hot Mix Base Course
(1-1/2" [37.5 mm])

	Control Points	
Sieve (mm)	Percent Passing (%)	
2" (50.0)	100	
1½" (37.5)	90 - 100	
1" (25.0)	90 max.	
No. 4 (4.75)	-	
No. 8 (2.36)	15 - 41	
No. 16 (1.18)	-	
No. 30 (0.60)	-	
No. 50 (0.30)	-	
No. 200 (0.075)	0 - 6	
Asphalt Binder Content	Design Value	
% Air Voids	4.0	
% VMA	11.5 - 13.0	
Minimum Water Sensitivity Ratio	80.0	
% Anti-strip	As Required	
Fines to Asphalt Ratio*	0.6 - 1.6	
Wheel Tracking Test	Design Gyration	Maximum Rut
(8000 cycles, 100 psi, 64°C)	75 & 115	0.315 in. (8.000 mm)
	160	0.197 in. (5.000 mm)
	205	0.197 in. (5.000 mm)

^{*}Fines to asphalt ratio shall be defined as the percent materials passing the No. 200 (0.075 mm) sieve (expressed as a percent of total aggregate weight) divided by the effective asphalt binder content.

ARKANSAS DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL SPECIFICATION PERCENT AIR VOIDS FOR ACHM MIX DESIGNS

Table 406-1 of **Subsection 406.04**, **Construction Requirements and Acceptance**, is hereby deleted and the following substituted therefor:

Table 406-1

	Table 400-1			
Design Requirements f	or Asphalt Concrete Ho	ot Mix Binder Course		
	(1" [25 mm])			
	Control Points			
Sieve (mm)	Percent Passing (%)			
1½" (37.5)	100			
1" (25.0)	90 - 100			
³¼" (19.0)	90 max.			
No. 4 (4.75)	-			
No. 8 (2.36)	19 - 45			
No. 16 (1.18)				
No. 30 (0.60) -				
No. 50 (0.30)	No. 50 (0.30)			
No. 200 (0.075)	1 - 7			
Asphalt Binder Content	Design Value			
% Air Voids	4.0			
% VMA	12.5 - 14.0			
Minimum Water Sensitivity Ratio	80			
% Anti-strip	As Required			
Fines to Asphalt Ratio*	0.6 - 1.6			
Wheel Tracking Test	Design Gyration	Maximum Rut		
(8000 cycles, 100 psi, 64°C)	75 & 115	0.315 in. (8.000 mm)		
	160	0.197 in. (5.000 mm)		
	205	0.197 in. (5.000 mm)		

^{*}Fines to asphalt ratio shall be defined as the percent materials passing the No. 200 (0.075 mm) sieve (expressed as a percent of total aggregate weight) divided by the effective asphalt binder content.

ARKANSAS DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL SPECIFICATION PERCENT AIR VOIDS FOR ACHM MIX DESIGNS

Table 407-1 and Table 407-2 of **Subsection 407.04**, **Construction Requirements and Acceptance**, are hereby deleted and the following substituted therefor:

Table 407-1

Design Requirements for Asphalt Concrete Hot Mix Surface Course (1/2" [12.5 mm]) **Control Points** Sieve (mm) Percent Passing (%) 3/4" (19.0) 100 90 - 100 1/2" (12.5) 3/8" (9.5) 90 max. No. 8 (2.36) 28 - 58 No. 16 (1.18) No. 30 (0.60) No. 50 (0.30) No. 200 (0.075) 2 - 10 **Asphalt Binder Content** Design Value % Air Voids 4.0 % VMA 14.0 - 16.0Minimum Water Sensitivity Ratio 80.0 % Anti-strip As Required 0.6 - 1.6Fines to Asphalt Ratio* Maximum Rut Wheel Tracking Test Design Gyration (8000 cycles, 100 psi, 64°C) 75 & 115 0.315 in. (8.000 mm) 0.197 in. (5.000 mm) 160 205 0.197 in. (5.000 mm)

^{*}Fines to asphalt ratio shall be defined as the percent materials passing the No. 200 (0.075 mm) sieve (expressed as a percent of total aggregate weight) divided by the effective asphalt binder content.

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ARKANSAS DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL SPECIFICATION PERCENT AIR VOIDS FOR ACHM MIX DESIGNS

Table 407-2 Design Requirements for Asphalt Concrete Hot Mix Surface Course (3/8" [9.5 mm])

	Control Points	
Sieve (mm)	Percent Passing (%	6)
1/2" (12.5)	100	
3/8" (9.5)	90 - 100	
No. 4 (4.75)	90 max.	
No. 8 (2.36)	32 - 67	
No. 16 (1.18)	-	
No. 30 (0.60)	-	
No. 50 (0.30)	-	
No. 200 (0.075)	2 - 10	
Asphalt Binder Content	Design Value	
% Air Voids	4.0	
% VMA	15.0 - 17.0	
Minimum Water Sensitivity Ratio	80.0	
% Anti-strip	As Required	
Fines to Asphalt Ratio*	0.6 - 1.6	
Wheel Tracking Test	Design Gyration	Maximum Rut
(8000 cycles, 100 psi, 64°C)	75 & 115	0.315 in. (8.000 mm.)
•	160	0.197 in. (5.000 mm)
	205	0.197 in. (5.000 mm)

^{*}Fines to asphalt ratio shall be defined as the percent materials passing the No. 200 (0.075 mm) sieve (expressed as a percent of total aggregate weight) divided by the effective asphalt binder content.

09-13-18 SS-400-6 Page 1 of 1

ARKANSAS DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL SPECIFICATION LIQUID ANTI-STRIP ADDITIVE

Division 400 of the Standard Specifications for Highway Construction, Edition of 2014, is hereby amended as follows:

Section 404, DESIGN AND QUALITY CONTROL OF ASPHALT MIXTURES, is hereby modified as follows:

The following is added as the last bullet following the first paragraph of **Subsection 404.01(b)**, **Design Requirements:**

• All ACHM mixes must contain a liquid, anti-strip additive.

Section 409, MATERIALS AND EQUIPMENT FOR ASPHALT CONCRETE PLANT MIX COURSES, is hereby modified as follows:

The second paragraph of **Subsection 409.02 Asphalt Binder** is hereby deleted and the following is substituted therefor:

The asphalt binder for all Asphalt Concrete Hot Mixes shall contain a heat-stable, liquid anti-strip additive. The additive shall be furnished from the Qualified Products List. The additive shall not harm the completed bituminous concrete mixture and must be compatible with the aggregate and asphalt binder supplied for the project. The anti-strip additive shall be added either by an in-line blending process just before introduction of the asphalt binder to the mixer or by blending with the asphalt binder at the asphalt binder terminal. If blended at the terminal, the bill of lading accompanying the load being delivered to the hot mix asphalt plant shall include the anti-strip manufacturer's name, product name, and quantity of all anti-strip additive included in the load.

The liquid anti-strip additive shall be added at rates as indicated below:

- For ACHM mixes where the use of an anti-strip additive is required as determined by the laboratory analysis and mix design procedures, the anti-strip additive shall be added at the rate of 0.50% to 0.75% by weight of asphalt binder as determined by the laboratory analysis and laboratory mix design procedures.
- For all other mixes, the manufacturer's recommended dosage of the additive shall be used, but the rate of liquid anti-strip additive shall not be less than 0.25% by weight of the asphalt binder.

ARKANSAS DEPARTMENT OF TRANSPORTATION

SUPPLEMENTAL SPECIFICATION

CONSTRUCTION REQUIREMENTS AND ACCEPTANCE OF ASPHALT CONCRETE PLANT MIX COURSES

Section 410, Construction Requirements and Acceptance of Asphalt Concrete Plant Mix Courses, of the Standard Specifications for Highway Construction, Edition of 2014, is hereby modified as follows:

Subsection 410.10 Incentives is hereby deleted.

ARKANSAS DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL SPECIFICATION

DEVICES FOR MEASURING DENSITY FOR ROLLING PATTERNS

Section 410 of the Standard Specifications for Highway Construction, Edition of 2014, is hereby amended as follows:

The fourth sentence of the first paragraph of Subsection 410.08, Rolling and Density Requirements and Joints, is hereby deleted and the following substituted therefor:

The Engineer will observe the Contractor's use of an electromagnetic surface contact device that meets ASTM D7113/D7113M or the use of a nuclear density gauge to verify that the maximum densities possible are obtained.

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ARKANSAS DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL SPECIFICATION

RETROREFLECTIVE SHEETING FOR TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES

Section 604 of the Standard Specifications for Highway Construction, Edition of 2014, is hereby amended as follows:

The following is inserted after the first paragraph of Subsection 604.02(b):

Retroreflective sheeting used on traffic drums shall meet the requirements of ASTM D4956 for Type III or IV with the additional requirements for Reboundable Sheeting. Retroreflective sheeting for delineators shall comply with section 728.

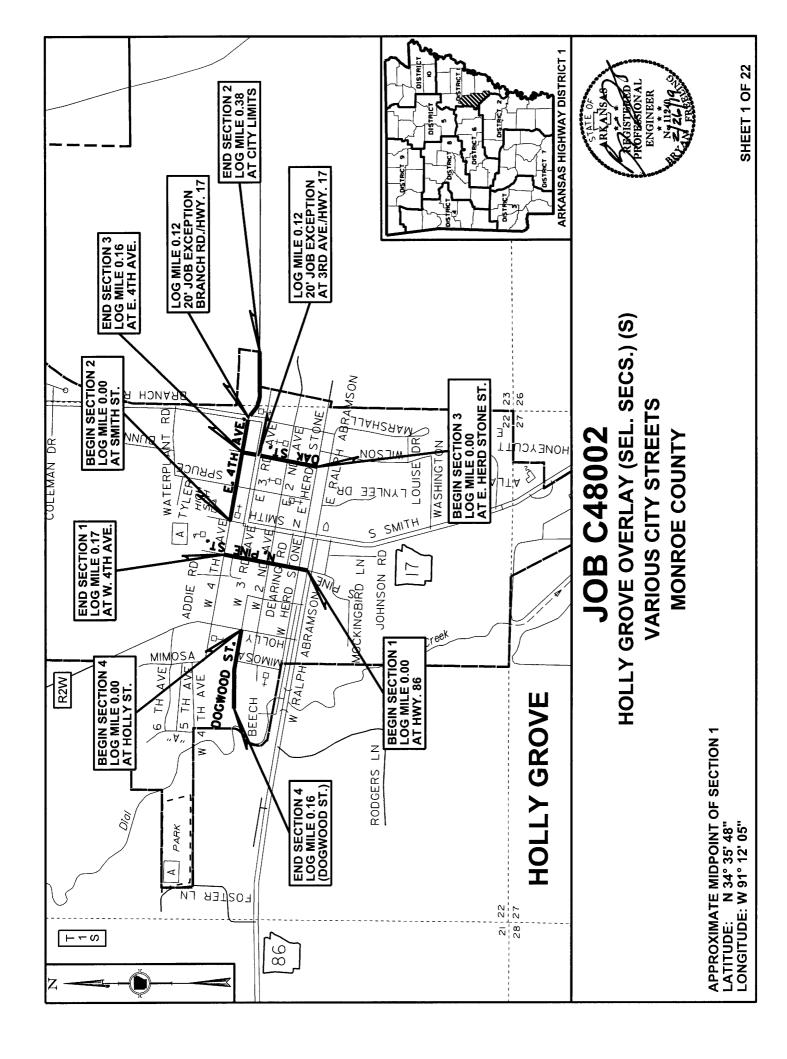
Retroreflective sheeting shall be applied to a properly treated substrate with mechanical equipment and in a manner specified by the sheeting manufacturer. Sign material (substrate) shall be of sufficient thickness and stability to maintain a substantial, effective sign for the duration of the project. One splice will be allowed in retroreflective sheeting on sign blanks. "Left", "Right", "Distances", and "Ahead" will be allowed on signs as inserts. All letters and numerals on inserts shall be of the same size and series as those on the sign face.

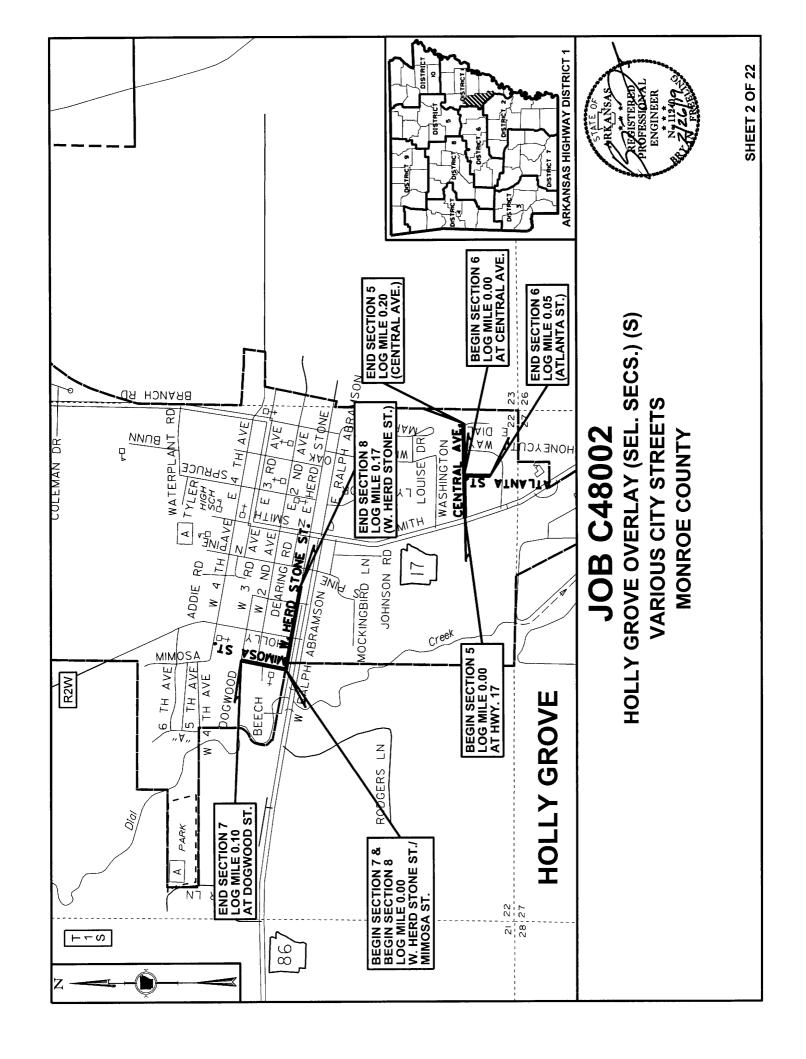
ARKANSAS DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL SPECIFICATION PIPE CULVERTS FOR SIDE DRAINS

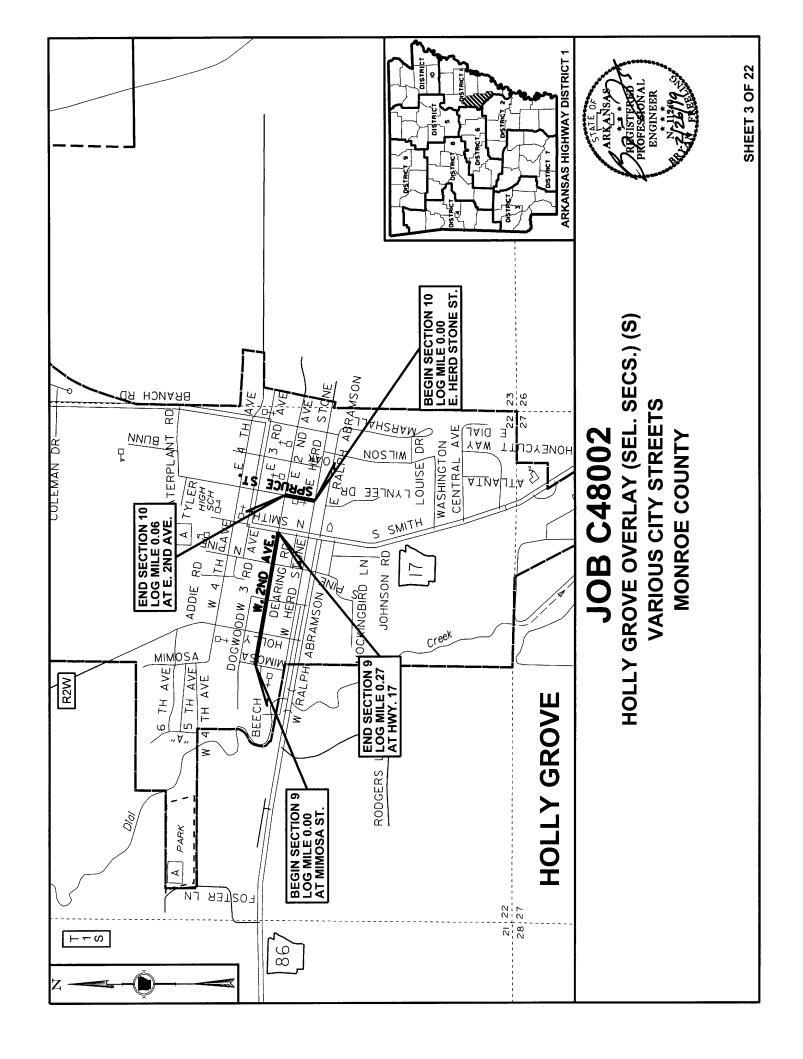
Section 606 of the Standard Specifications for Highway Construction, Edition of 2014, is hereby amended as follows:

The second paragraph of **Subsection 606.01** is hereby deleted and the following substituted therefore:

For side drains, when the type is not specified on the plans, the Contractor may furnish any of the types listed in Subsection 606.02 provided that only one type and material shall be used for all side drains of like cross-sectional shape on the project. In addition, when circular pipe is specified for a side drain the Contractor may, at no additional cost to the Department, substitute an arch pipe providing the equivalent waterway.







INDEX OF SHEETS

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SUMMARY OF QUANTITIES AND REVISIONS

ROADWAY STANDARD DRAWINGS

04-13-17 11-10-05 DATE 02-27-14 09-02-15 09-02-15 TITLE STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION_ STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION_ STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION. WHEELCHAIR RAMPS NEW CONSTRUCTION AND ALTERATIONS_ CONCRETE PIPE CULVERT FILL HEIGHTS & BEDDING_ DRWG. NO. PCC-1_ WR-1 TC-2_ 15 75.

JOB C48002

GOVERNING SPECIFICATIONS

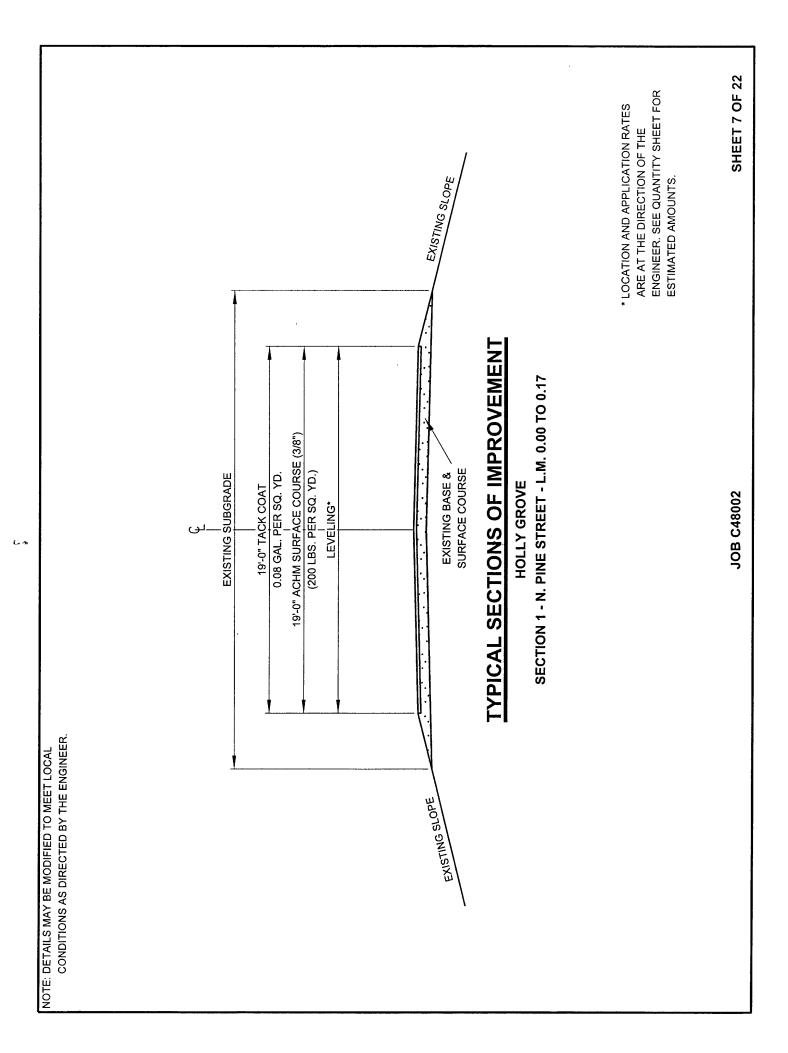
ARKANSAS STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EDITION OF 2014, AND THE FOLLOWING SPECIAL PROVISIONS AND SUPPLEMENTAL SPECIFICATIONS.

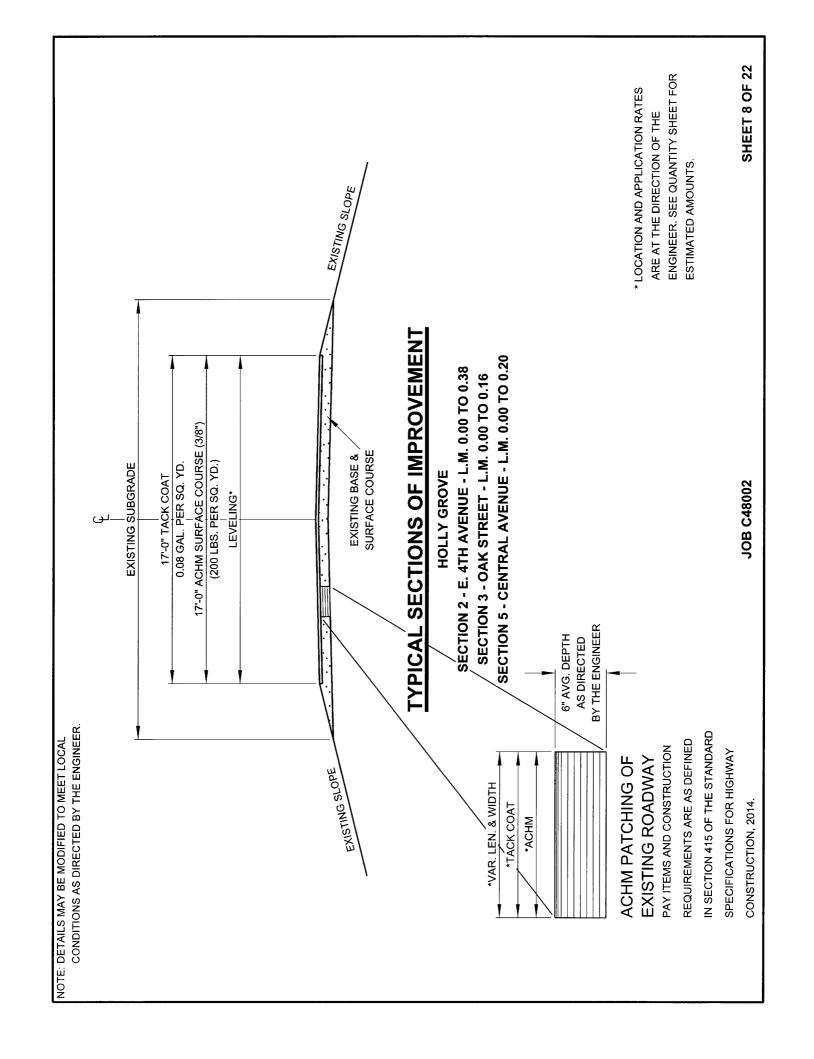
TITLE TITLE TITLE	CONTRACTOR'S LICENSE	DEPARTMENT NAME CHANGE	ISSUANCE OF PROPOSALS	LIQUIDATED DAMAGES	WORK ALLOWED PRIOR TO ISSUANCE OF WORK ORDER	QUALITY CONTROL AND ACCEPTANCE	TACK COATS	DESIGN AND QUALITY CONTROL OF ASPHALT MIXTURES	PERCENT AIR VOIDS FOR ACHIM MIX DESIGNS	LIQUID ANTI-STRIP ADDITIVE	CONSTRUCTION REQUIREMENTS AND ACCEPTANCE OF ASPHALT CONCRETE PLANT MIX COURSES	DEVICES FOR MEASURING DENSITY FOR ROLLING PATTERNS	RETROREFLECTIVE SHEETING FOR TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES	PIPE CULVERTS FOR SIDE DRAINS	ADJUSTIMENT OF QUANTITIES FOR STATE-AID STREET PROJECTS	BIDDING REQUIREMENTS AND CONDITIONS	BROADBAND INTERNET SERVICE FOR ASPHALT CONCRETE PLANT	DENSITIES FOR ACHM SURFACE COURSE	FLEXIBLE BEGINNING OF WORK (PAVEMENT PRESERVATION, CITY AID, AND STATE AID PROJECTS)	MANDATORY ELECTRONIC CONTRACT	MANDATORY ELECTRONIC DOCUMENT SUBMITTAL	PLASTIC PIPE	RECYCLED ASPHALT SHINGLES	SETTLEMENT AGREEMENTS	SUBMISSION OF ASPHALT CONCRETE HOT MIX ACCEPTANCE TEST RESULTS	WARM MIX ASPHALT
ERRATA EC	CONTRACT	DEPARTME	_ ISSUANCE	_ LIQUIDATE	_ WORK ALL	_ QUALITY C	_ TACK COA.	_ DESIGN AN	_ PERCENT #	_ LIQUID ANT	CONSTRUC	_ DEVICES F	_RETROREF	_ PIPE CULV	_ ADJUSTME	_ BIDDING RI	_ BROADBAN	_ DENSITIES	_ FLEXIBLE E	_ MANDATOF	_ MANDATOF	_ PLASTIC PI	RECYCLED	SETTLEME	SUBMISSIC	_ WARM MIX
NUMBER FRRATA	100-3	100-4	102-2	108-1	108-2	306-1	400-1	400-4	400-5	400-6	410-1	410-2	604-1	606-1	JOB C48002	JOB C48002	JOB C48002	JOB C48002	JOB C48002	JOB C48002	JOB C48002	JOB C48002	JOB C48002	JOB C48002	JOB C48002	JOB C48002

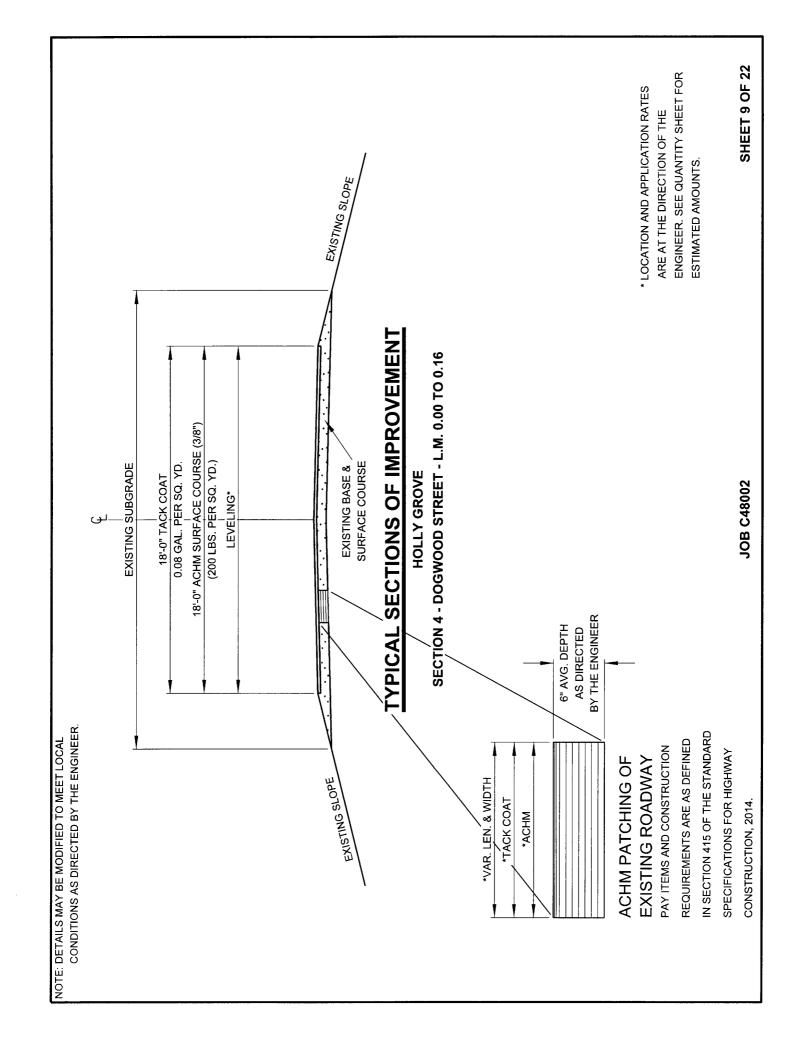
GENERAL NOTES

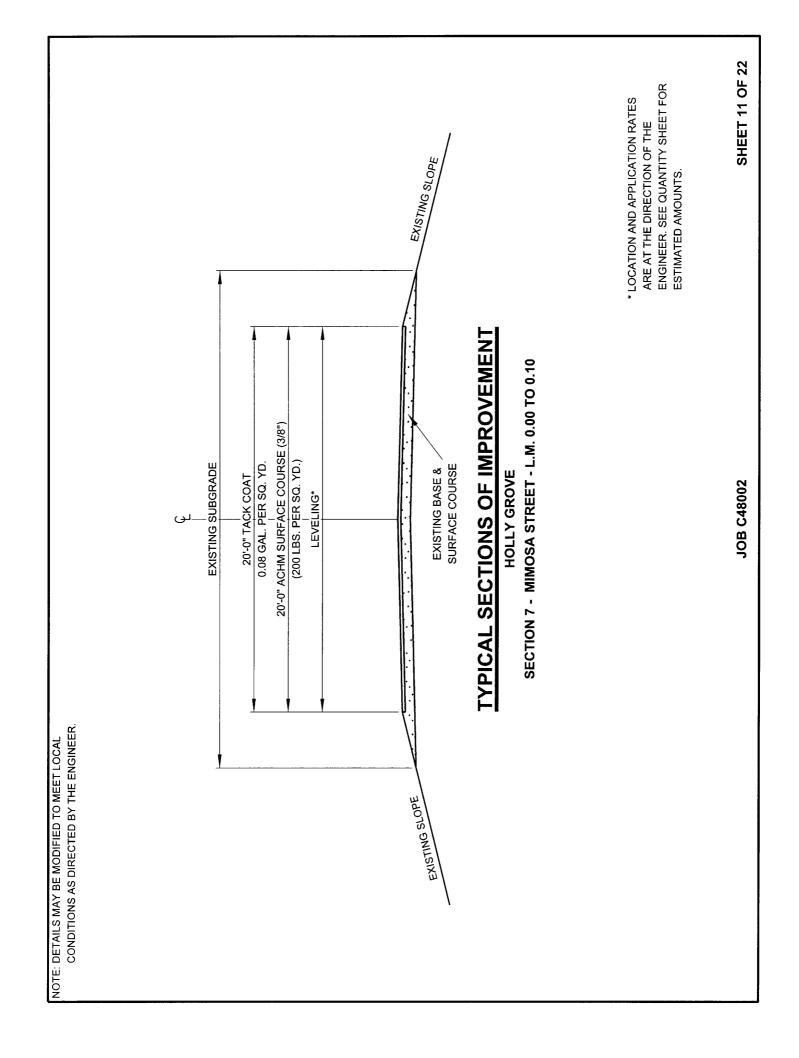
- SPEED BUMPS TO BE REMOVED BY THE CONTRACTOR. REMOVAL OF SPEED BUMPS WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE CONSIDERED INCLUDED IN THE CONTRACT PRICES BID FOR OTHER ITEMS OF THE CONTRACT.
- SUPPLYING UTILITY RISERS AND INSTALLATION OF PERMANENT TRAFFIC SAFETY SIGNS NOT SHOWN IN THE PLANS ARE THE RESPONSIBILITIES OF THE CITY OF HOLLY GROVE. ۲i
- THE SEQUENCE AS SHOWN ON THE MAINTENANCE OF TRAFFIC PLANS IS A GENERAL OUTLINE FOR THE CONSTRUCTION OF THIS PROJECT, AND IN NO WAY IS IT INTENDED TO COVER EVERY ITEM IN THIS PROJECT. ITEMS NOT CRITICAL TO THE CONSTRUCTION SEQUENCE MAY BE CONSTRUCTED IN ANY STAGE AS APPROVED BY THE RESIDENT ENGINEER. က
- THE CONTRACTOR SHALL CLIP GRASS AND DEBRIS FROM THE EDGE OF THE EXISTING ROADWAY. THESE "CLIPPINGS" SHALL BE PULLED UP TO THE EDGE OF THE NEW PAVEMENT IN SECTIONS WHERE THE SHOULDERS ARE NOT BEING REBUILT WITH AGGREGATE OR BORROW. NO DIRECT PAYMENT WILL BE MADE FOR THIS WORK. 4

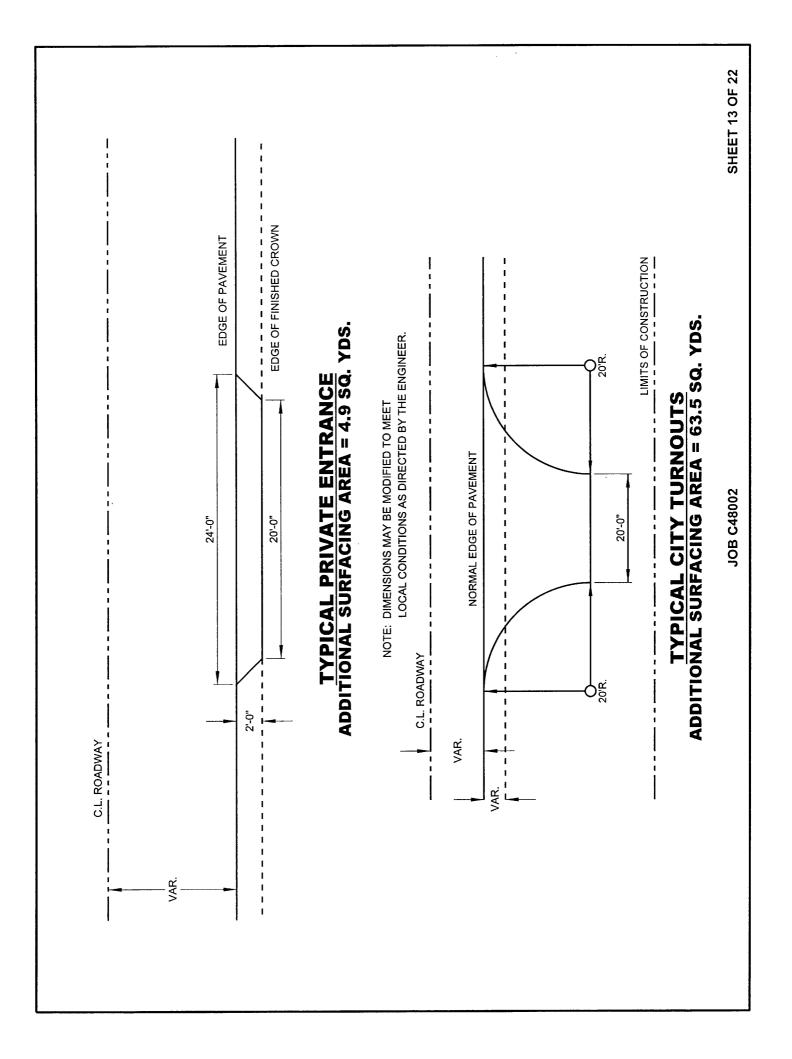
JOB C48002

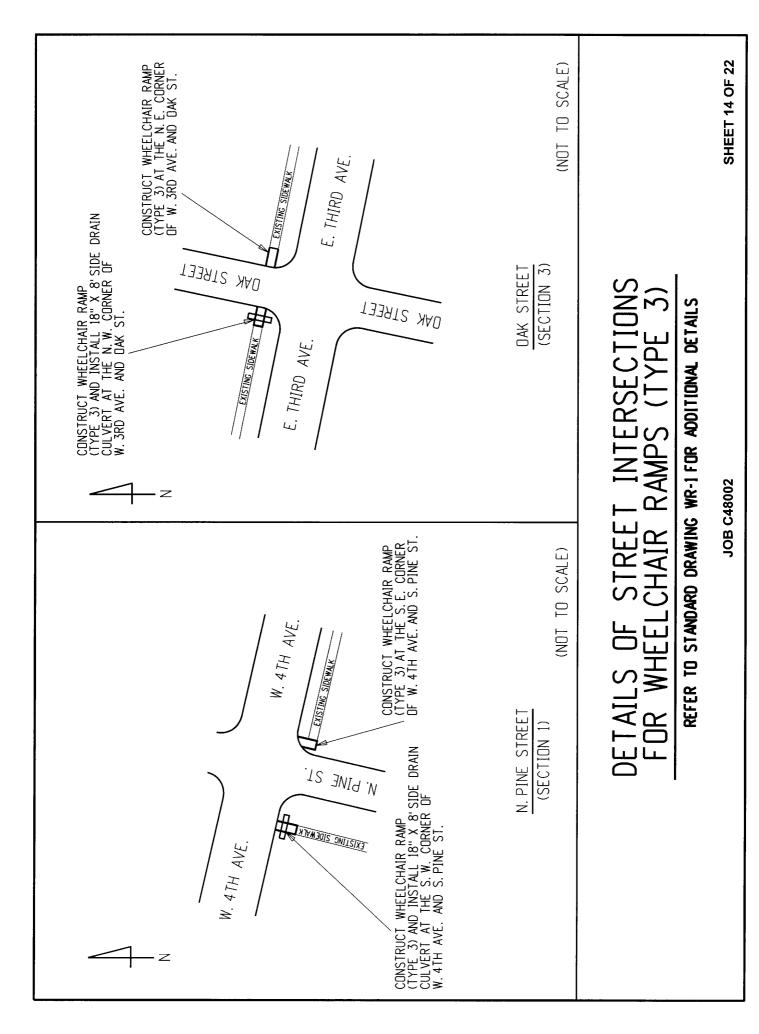












SHEET 15 OF 22

PATCHING AND SURFACING QUANTITIES (BOX 1 OF 3)

				- 1		(- ~ -	 5,			
DESCRIPTION	TOG MILE	AILE	LENGTH	ACHM PATCHING OF EXISTING ROADWAY**	H-	TACK COAT	L	ACF CO	ACHM SURFACE COURSE (3/8")*	Щ _* (
	FROM	10	LIN. FT.	NOT	WIDTH	SQ. YD.	GAL	WIDTH	SQ. YD.	NOT
		SECT	ION 1 - N. F	SECTION 1 - N. PINE STREET						
MAIN LANES	00'0	0.17	868		19.00	1895.8	151.7	19.00	1895.8	189.6
6 PRIVATE ENTRANCES						29.4	2.4		29.4	2.9
6 CITY STREETS						381.0	30.5	:	381.0	38.1
LEVELING							30.0			20.0
		SECT	<u>SECTION 2 - E. 4</u>	4TH AVENUE						
MAIN LANES	00.0	0.38		25.0	17.00	3751.3	300.1	17.00	3751.3	375.1
(20' EXCEPTION @ BRANCH RD./HWY. 17)										
19 PRIVATE ENTRANCES						93.1	7.4		93.1	9.3
4 CITY STREETS						254.0	20.3		254.0	25.4
LEVELING							82.5			55.0
		SEC	SECTION 3 - 0/	OAK STREET						
MAIN LANES	00.0	0.16	825	15.0	17.00	1558.3	124.7	17.00	1558.3	155.8
(20' EXCEPTION @ 3RD AVE./HWY. 17)										
8 PRIVATE ENTRANCES						39.2	3.1		39.2	3.9
LEVELING							22.5			15.0
		SECTIO	N 4 - DOGV	SECTION 4 - DOGWOOD STREET						
MAIN LANES	00'0	0.16	845	25.0	18.00	1690.0	135.2	18.00	1690.0	169.0
13 PRIVATE ENTRANCES						63.7	5.1		63.7	6.4
LEVELING							37.5			25.0
SUBTOTALS (BOX 1 OF 3):				65.0			953.0			1090.5
BASIS OF ESTIMATE:								0000	0	Ç
I ACK COAL				1				0.08 GAL	FER VC.	Ž.
ACHM SURFACE COURSE (3/8")	ļ					į		200 POU	200 POUND PER SQ. YD	2. YD.
*Nmax=115										
<u>VOLUME CONTROL:</u>										
ASPHALT BINDER (PG 64-22) IN ACHM SURFACE COURSE (3/8") MINERAL AGGREGATE IN ACHM SLIREACE COLIRSE (3/8")	CE COUP	3SE (3/8)						5.5% 94.5%		
	7 1010	2						01.0.10		

**QUANTITY ESTIMATED. TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER. SEE SECTION 104.03 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EDITION OF 2014.

48002

SHEET 16 OF 22

PATCHING AND SURFACING QUANTITIES (BOX 2 OF 3)

))				くりして		5		
DESCRIPTION	907	LOG MILE	LENGTH	ACHM PATCHING OF EXISTING ROADWAY**	T	TACK COAT		ACHM S	ACHM SURFACE COURSE (3/8")*	OURSE
	FROM	OL	LIN. FT.	NOT	WIDTH	SQ. YD.	GAL.	WIDTH	SQ. YD.	NOT
			SECTION 5	- CENTRAL AVENUE	NUE					
MAIN LANES	0.00	0.20	1056	10.0	17.00	1994.7	159.6	17.00	1994.7	199.5
13 PRIVATE ENTRANCES						63.7	5.1		63.7	6.4
1 CITY STREET						63.5	5.1		63.5	6.4
LEVELING							30.0			20.0
			SECTION 6	SECTION 6 - ATLANTA STREET	KEET					
MAIN LANES	00.0	90'0	264		17.00	498.7	39.9	17.00	498.7	49.9
3 PRIVATE ENTRANCES						14.7	1.2		14.7	1.5
LEVELING							7.5			5.0
			SECTION	SECTION 7 - MIMOSA STREET	EET					
MAIN LANES	0.00	0.10	528		20.00	1173.3	93.9	20.00	1173.3	117.3
4 PRIVATE ENTRANCES						19.6	1.6		19.6	2.0
LEVELING							15.0			10.0
		SE	SECTION 8 - V	W. HERD STONE STREET	STREET					
MAIN LANES	0.00	0.17	868		18.00	1796.0	143.7	18.00	1796.0	179.6
8 PRIVATE ENTRANCES						39.2	3.1		39.2	3.9
4 CITY STREETS						254.0	20.3		254.0	25.4
LEVELING							30.0			20.0
SUBTOTALS (BOX 2 OF 3):				10.0			556.0			646.9

BASIS OF ESTIMATE:

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TACK COAT	5
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0.08 GAL. PER SQ. YD. 200 POUND PER SQ. YD. ACHM SURFACE COURSE (3/8")

*Nmax=115

5.5% 94.5% VOLUME CONTROL:
ASPHALT BINDER (PG 64-22) IN ACHM SURFACE COURSE (3/8")_
MINERAL AGGREGATE IN ACHM SURFACE COURSE (3/8")_____ **QUANTITY ESTIMATED. TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER. SEE SECTION 104.03 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EDITION OF 2014.

JOB C48002

PATCHING AND SURFACING QUANTITIES (BOX 3 OF 3)

						,				
DESCRIPTION	907	LOG MILE	LENGTH	ACHM PATCHING OF EXISTING	F	TACK COAT		ACHM SI	ACHM SURFACE COURSE (3/8")*	OURSE
	i C	ŀ		KOADWAY	11±01/41		5	1 TOWA	2	I C
	FROM	2	LIN. FI.	ION	WIDIH	SQ. YD.	GAL.	WIDIH	SQ. YD.	ON
			SECTION	SECTION 9 - W. 2ND AVENUE	IUE					
MAIN LANES	00.00	0.27	1426		18.00	2852.0	228.2	18.00	2852.0	285.2
16 PRIVATE ENTRANCES						78.4	6.3		78.4	7.8
4 CITY STREETS						254.0	20.3		254.0	25.4
LEVELING							45.0			30.0
			SECTION 1	SECTION 10 - SPRUCE STREET	EET					
MAIN LANES	00'0	90'0	317		17.00	598.8	47.9	17.00	598.8	59.9
5 PRIVATE ENTRANCES						24.5	2.0		24.5	2.5
LEVELING							7.5			5.0
SUBTOTALS (BOX 3 OF 3):				0.0			357.2			415.8
TOTALS:				75.0			1866.2			2153.2
USE:				75			1866			2153

BASIS OF ESTIMATE:

0.08 GAL. PER SQ. YD. 200 POUND PER SQ. YD.

*Nmax=115

VOLUME CONTROL:

5.5%	94.5%	
ASPHALT BINDER (PG 64-22) IN ACHM SHREACE COURSE (3/8")	MINERAL AGGREGATE IN ACHM SURFACE COURSE (3/8")	

^{**}QUANTITY ESTIMATED. TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER. SEE SECTION 104.03 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EDITION OF 2014.

JOB C48002

STRUCTURES

							_	
	STANDARD DRAWING	N CIMEN C			PCC-1		PCC-1	
PIPE	SIDE DRAINS	18"	LIN. FT.	REET	8		8	16
	DESCRIPTION			SECTION 1 - N. PINE STREET STREET	INSTALL PIPE CULVERT - RT. SIDE DRAIN	SECTION 3 - OAK STREET	INSTALL PIPE CULVERT - LT. SIDE DRAIN	
	TOG MILE				0.17		0.12	TOTAL:

FOR R.C. PIPE CULVERT INSTALLATIONS USE TYPE 3 BEDDING UNLESS OTHERWISE SPECIFIED.

TRAFFIC CONTROL DEVICES

LOCATION	ROAD WORK AHEAD (W20-1)	WORK (W20-1)	G2	G20-2
	NO.	SQ. FT.	NO.	SQ. FT.
SECTION 1 - N. PINE STREET	- N. PINE S	TREET		
BEGIN SECTION	1	16.00	1	8.00
END SECTION	1	16.00	1	8.00
SECTION 2 - E. 4TH AVENUE	- E. 4TH A\	/ENUE		
BEGIN SECTION	1	16.00	1	8.00
L.M. 0.20 (BRANCH RD./HWY. 17)	2	32.00	2	16.00
END SECTION	1	16.00	1	8.00
SECTION	3 - OAK STREET	REET		
BEGIN SECTION	1	16.00	1	8.00
L.M. 0.12 (3RD AVE./HWY. 17)	2	32.00	2	16.00
SECTION 4 - DOGWOOD	OGWOOD	STREET		
BEGIN SECTION	1	16.00	1	8.00
SECTION 5 - CENTRAL		AVENUE		
BEGIN SECTION	1	16.00	1	8.00
SECTION 8 - W. HERD STONE STREET	HERD STO	<u>NE STREE</u>		
END SECTION	1	16.00	1	8.00
- 6 NOILOS	- W. 2ND AVENUE	VENUE		
END SECTION	1	16.00	1	8.00
SECTION 10 -	SPRUCE	STREET		
BEGIN SECTION	1	16.00	1	8.00
END SECTION	1	16.00	1	8.00
TOTALS:	15	240.00	15	120.00
TOTAL:				360.00

JOB C48002

WHEELCHAIR RAMPS

LOCATION	DESCRIPTION	WHEELCHAIR RAMPS (TYPE 3)
		SQ. YD.
SECT	SECTION 1 - N. PINE STREET	
E. 4TH STREET	S. EAST CORNER	2.7
E. 4TH STREET	S. WEST CORNER	8.9
SEC	SECTION 3 - OAK STREET	
E. 3RD STREET	N. EAST CORNER	3.6
E. 3RD STREET	N. WEST CORNER	4.4
TOTAL:		19.6
USE:		20.0

JOB C48002

REMOVAL AND DISPOSAL OF WALKS

LOCATION	DESCRIPTION	REMOVAL AND DISPOSAL OF CONCRETE WALKS
		SQ. YD.
	SECTION 1 - N. PINE STREET	
E. 4TH STREET	S. EAST CORNER	2.7
	SECTION 3 - OAK STREET	
E. 3RD STREET	N. EAST CORNER	3.6
E. 3RD STREET	N. WEST CORNER	4.4
TOTAL:		10.7
idSI		11

*NOTE: REMOVAL AND DISPOSAL OF SPEED BUMPS WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE INCLUDED IN THE PRICE BID FOR VARIOUS CONTRACT ITEMS.

SUMMARY OF QUANTITIES

ITEM NO.	I T E M	QUANTITY	LINO
202	REMOVAL AND DISPOSAL OF WALKS	11	SQ. YD.
SS & 401	TACK COAT	1866	GAL.
SP, SS, & 407	SP, SS, & 407 MINERAL AGGREGATE IN ACHM SURFACE COURSE (3/8")	2035	NOT
SP, SS, & 407	SP, SS, & 407 ASPHALT BINDER (PG 64-22) IN ACHM SURFACE COURSE (3/8")	118	NOT
SP, SS, & 415	SP, SS, & 415 ACHM PATCHING OF EXISTING ROADWAY	75	TON
601	MOBILIZATION	1.00	LUMP SUM
603	MAINTENANCE OF TRAFFIC	1.00	MUS AMUL
SS & 604	SIGNS	360	SQ. FT.
SP, SS, & 606	SP, SS, & 606 18" SIDE DRAIN	16	LIN. FT.
641	WHEELCHAIR RAMPS (TYPE 3)	20	SQ. YD.

REVISIONS

DATE	REVISION	SHEET NO.

JOB C48002

REINFORCED CONCRETE ARCH PIPE DIMENSIONS

		_	_	_	_			_	_							_		_		
CNO	RISE	NOMINAL		=	=	9	œ	53	22	æ	8	9	\$	2	29	75	11	87	4	107
UITENSIUNS	æ	AASHTO N 206	INCHES	=	13%	15%	<u>@</u>	422	7 92	×10	98	9	ŧ,	3	29	22	4/17	871	496	//90
	SPAN	AHTO NOMINAL	INC	82	25	92	۶	ጽ	‡	5	ę,	5	22	88	20	12	122	82	25	59
	es.	AASHTO N 206		8	22	8	28%	36	43×	217	28%	ß	2	88	2	5	22	8	7	789
Ī	EQUÍY.	OIA.	INCHES	5	<u>æ</u>	7	7	8	×	42	₽	Ž,	8	22	\$	8	¥	8	ន	33

REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE DIMENSIONS

		_	_															ž	3
AASHTO M 207	RISE	INCHES	=	5	22	7.	23	ዴ	8	₹	æ	₽	8	23	83	S	8	ONA NAC	MODE TH
AASHTO	NHdS		23	2	7	8	42	42	4	23	8	8	92	83	7	8	8	S OZENSY	VOAV TO
EOUIY.	OIA.	INCHES	9	7	23	8	8	ж	ድ	42	₽	2	3	99	22	82	2	THE NE	CHAIL

SHALL NOI YAHT MORE IHAN ± 2 PERCENT FROM THE VALUES SPECIFIED BY AASHTO M207. THE MEASURED SPAN AND RISE SHALL NOT VARY MORE THAN 4.2 PERCENT FROM THE VALUES SPECIFIED BY AASHTO M206.

CONSTRUCTION SEQUENCE

I. PLACE STRUCTURAL RECORNG MATERIAL TO GRADE. DO NOT COMPACT.
2. NOSTHEL PPET TO GRADE.
2. NOSTHEL PPET TO GRADE.
2. NOSTHEL TO STRUCTURAL RECORNG COLTSOR THE MODE OF THE PPET.
4. PLACE AND COMPACT.
5. COMPLETE BACKFILL ACCORDING TO SUBSECTION 606-0314791.

NOTE: HAUNCH AND STRUCTURAL BEDDING MATERIAL WILL NOT BE AND FOR SEPARATELY, BUT COMPENSATION WILL BE CONSIDERED TO BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF CONCRETE PIPE.

- LEGEND

D. = NORMA, INSIDE DIAMETER OF PIPE D. = OUISIDE DIAMETER OF PIPE H. = FILL. COVER PIECH OVER PIPE (FEET) MINI-MINIMAL MINIMAL WITH PIPE (FEET)

CLASS 71	2, OR SM-4)	5
TSE (CLASS 5 OR	CLASS SM-1, SM-	ION A-1 THRU A-6
CREGATE BASE COU	ECTED MATERIALS OR TYPE 1 INST	AASHTO CLASSIFICATION A-1 THRU A-6 SOII
TYPE 1 ACC	TYPE 2 SEL	₩#
	TYPE 1 AGGREGATE BASE COURSE (CLASS 5 OR CLASS 7)	, , , , , , , , , , , , , , , , , , ,

* SM-3 WILL NOT BE ALLOWED.

** MATERIALS SHALL NOT INCLUDE ORGANIC MATERIALS OR STONES LARGER THAN 3 INCHES.

MAXIMUM HEIGHT OF FILL 'H' OVER CIRCULAR R.C. PIPE CULVERTS

CLASS IV CLASS V

CLASS III

CLASS OF PIPE

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INSTALLATION TYPE 1 OR 2 TYPE 3

PIPE 10 CIN.1

7

2.5

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MINIMUM HEIGHT OF FILL "H"

OVER CIRCULAR R.C. PIPE CULVERTS

	3	LLASS UP PIPE	
INSTALLATION CLASS III	CLASS III	CLASS IV	CLASS V
-		FEET	
TYPE 1	12	32	S
TYPE 2	91	52	æ
TYPE 3	21	20	30

2

IO.

3.5

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5

5.5

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24-60 66-78 84-108

7

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m

27-33 36-42

6

2.5

18-24 12-15

NOTE: IF FILL HEIGHT EXCEEDS 50 FEET, A SPECIAL DESIGN CONCRETE PIPE WILL BE REQUIRED USING TYPE 1 INSTALLATION.

NOTE: FOR MINIMUM COVER VALUES, "I" SHALL INCLUDE A MINIMUM OF 12" OF PAVEMENT AND/OR BASE.

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7.5

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MINIMUM HEIGHT OF FILL "H"
OVER R.C. ARCH & HORIZONTAL
ELLIPTICAL PIPE CULVERTS

CLASS OF PIPE CLASS III CLASS IV

MAXIMUM HEIGHT OF FILL "H"
OVER R.C. ARCH & HORIZONTAL
ELLIPTICAL PIPE CULVERTS CLASS OF PIPE

TYPE 2 13 21 TYPE 3 10 16					
13 13 10	CLASS IV	ET	12	91	
TYPE 2 TYPE 3	CLASS III		13	01	
	INSIDE	, :	TYPE 2	TYPE 3	

NOTE: TYPE I INSTALLATION WILL NOT BE ALLOWED FOR ARCH & HORIZONTAL ELLIPTICAL PIPE CULVERTS.

NOTE: FOR MINIMUM COVER VALUES, 14" SHALL INCLUDE A MINIMUM OF 12" OF PAVENENT AND/OR BASE.

NOTE: TYPE 1 INSTALLATION WILL NOT BE ALLOWED FOR ARCH & HORIZONTAL ELLIPTICAL PIPE CULVERTS.

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2.5

TYPE 2 OR TYPE 3

・の事を持続は、いからいでは、の事を持続は、いからいかい事を持ちませる。	EMBANKMENT SECTION	-1-	Dothin)	12. MIN.	HAUNCH LOWER SIDE	STRUCTURAL BEDDING	Do/2 / BOTTON OF EXCAVATION L SELECTED PIPE BEDDING PAY LIMIT	ALLOW MAN TO A TO	LOOSELY PLACED UNCOMPACTED SELECTED PIPE BEDDING	///// GRECTED BY ENGINEER)
	TRENCH SECTION	EXCAVATION LINE AS REQUIRED	A Dechtin	12 MIN.	Toke Silve			STRICTION STRICT	13- MIN. IN FOCK!	

EMBANKMENT AND TRENCH INSTALLATIONS

- MATERIA, IN THE HAINCH AND OUTER STRUCTURAL BEDOING SHALL BE COMPACTED TO 95% OF THE MAXIMAIN DENSITY ACCORDING TO THE TYPE OR CLASS OF MATERIAL USED.
 - 2. FOR TRENCHES MITH MALLS OF NATURAL SOB, THE DENSITY OF THE SOB, IN THE LOWER SOE ZONE SHIFLE MES STAME SAND KEEN THE SOE SHIPLE SESTING SOON DES NOT MEET THIS CRITICAL, TS MALL BE REBUNCED AND RECOMPACIED TO 95% OF THE MAXIMUM DENSITY ACCORDING TO THE TIPLE OF MATERIAL USED.
- 3. FOR EMBANNMENTS, THE MATERIAL IN THE LOWER SIDE ZONE SHALL BE COMPACTED TO 95% OF THE MAXMALM DENSITY ACCORDING TO THE TYPE OR CLASS OF MATERIAL USED.

GENERAL NOTES

- CONTROLLE PER CLUVENT CONTROLLE ONE WAS A DEPARTMENT OF THE CHARACTER CHARAC
- CONCRETE PIPE CULYERT DESIGN SHALL CONFORM TO AASHTO LIRED BRIDGE DESIGN SPECIFICATIONS, FIFTH EDITION (ZOLO) WITH 200 MITHMS.
 - 3. ALL PRE SAUL CONFORM TO SECTION GOG, CROULAR R.C., PPET CULVERTS SAUL, CONFORM TO AASHTO MITO. R.C., MRD THORZON THE CLIPTICAL PPET CULVERTS SHALL CONFORM TO AASHTO MEDOS AND HORZONTAL ELLIPTICAL PPET CULVERTS SHALL CONFORM TO AASHTO MEDO.
- 4. ALL PIPE SHALL BE PROTECTED DURING CONSTRUCTION BY A COVER SUFFICENT TO PREVENT DAMAGE FROM PASSAGE OF EQUIPMENT.
- 5. THE MANAMAN TRENCH MOTH SHALL BE THE OUTSOE DAMETER OF THE PIPE PLUS 24 HICHES. THE ANXWORM ALLORARE TRENCH MOTH SHALL BE THE MANAMA MOTH PRACTICABLE FOR WARNING COMPILIONS.
- MALTIPLE POPP CALVERYS SMALL BE MISTALLED WITH A MANMAUM CLEARANCE OF 24 NONES PRIEREN STANGS OF PIPE. REFER TO STO. DIRG. FESS-2 FOR MANMAUM CLEARANCE WRETE FLARED END SECTIONS ARE USED.
 - 7. MAPERNOUS MATERAL SHOULD BE PLACED AS OPECTED BY THE ENCAREER AT THE ENDS OF THE COLVERT OF DEVENTIOLS OF STRUCTURAL BEDDING WHEN PERVNOUS MATERAL IS USED FOR STRUCTURAL BEDDING MAD'ON BACKELL.
- NOT JAMPE THAN DEET LEFT BETT ALLY REPROSED IN CONSISTE PRETOT ACTUALITY. ENGINEER AND EACH TOTAL THE CHEST CONSISTE LATER FORMS ARE TREADED, OR DELIZED, THE MEET SHALL FOR BE WORKET HAN THE NEED STATEMENT OF THE WORKET HAN THE WORKET HAN THE STATEMENT OF ACCURATION OF REPROSEDENT WILL NOT BE PERMITTED. SHALL BE FERMITTED. THE STATEMENT OF REPROSEDENT WILL NOT BE PERMITTED. THE STATEMENT OF THE WORKET HAN THE STATEMENT OF THE STATEMENT.
- MREN DRECTED BY THE ENCHER, UNSUTLABLE MATERIAL THAT IS ENCOUNTERD AT THE BOTTOM OF THE EXCENTAL THENCH THENCH DEBOOK ABOVED. THE EXCENTED AS "ASTOCITION ABOVED AS ADDICATED THE EXCENTION AND THENCH AROUND THE TO BACKELL THE MODIFICIL MAY BE OFFICE TO BE RECEIVED THE RESIDENCE THE TOWNSHIPM, REQUIRED THE MESSARED MAY DAY DON'S "SECTION THE BEDOMK FAT LIMIT DESIGNATED ABOVE THE BESTAND AND THAT DAY THEN AS "SECTION THE DEBOOMS".
- O. MEN HE GESTIG MATERAL EXCLAYIOT OF THE PPET TREACH IS DETENDED BY THE ENOUGHER TO BE UNSUTABLE FOR BLUTCHLING THE PPET AGONE THE AREA DEVINEED ABOVE SA THE MANNEY. BORNOW MISTRAL OR MATERAL FROM THE ROMANY EXCLAVION MILE BESTO TO BLOCKELT THE PPET F SUTMACE MATERAL IS NOT YAMILABE. THE BEWEER MAY AUTHORITE THE USE OF "SELECTED PPE ELOCALL."

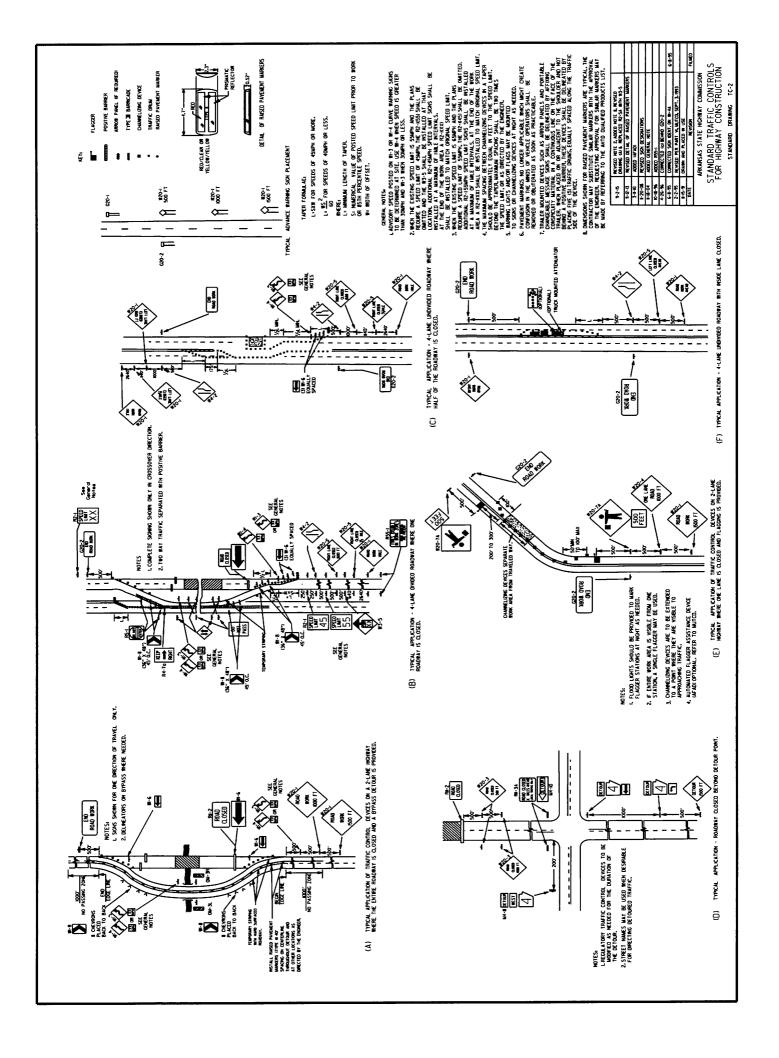
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					REVISED CENERAL NOTE 1.	REVISED FOR LAFO DESIGN SPECIFICATIONS	REVISED TYPE 3 BEDDING & ADDED NOTE	REVISED INSTALLATIONS	USING
					2-27-14	11-51-21	2-18-00	3-30-00	1-06-97 JSSIIFD

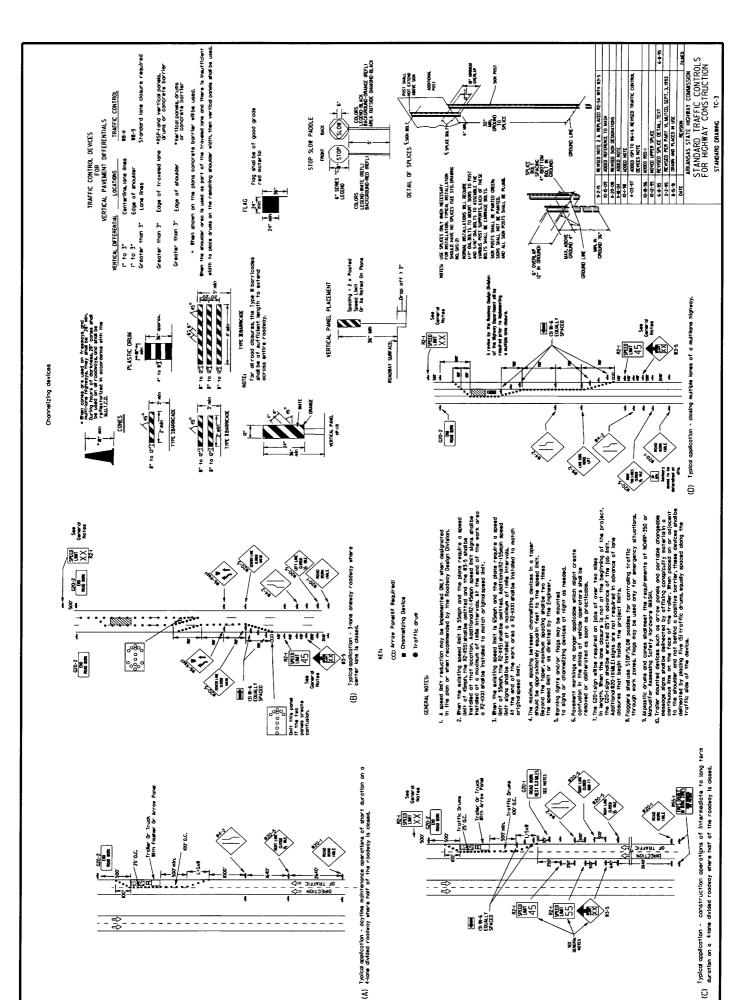
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CONCRETE PIPE	FILL HEIGHTS &

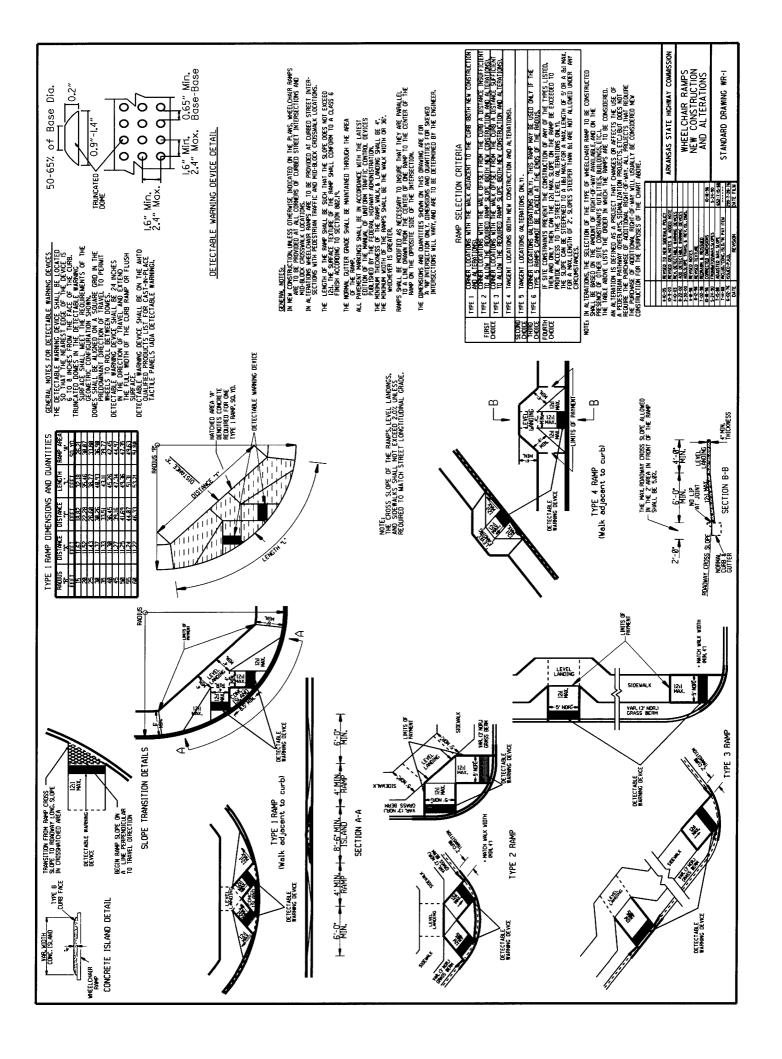
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ADVANCE DISTANCES CKXXXX CKXXXX SOO FT Y MLE GOOD FT I MLE SOO FT AMEAD	L ALL TRAFFIC CONTROL DEVICES USED ON ROAD CONSTRUCTION SHALL CONFORM TO THE MANALL ON HOMEN SHAFFIC CONTROL DEVICES, LATEST EDITOR, AND TO THE STANDARD HOMEN AS SHAFFICE EDITOR, OR AS APPROVED BY THE FEDERAL HOWAN ADAMSTRATION.	TRAFFIC CONTROL, COVECES SHALL BE ESTE PALSIBLE BENDER THE START OF CONSTRUCTOR OPERATIONS AND SHALL BE PROPERLY MANTHARD DURING THE THE SUCH CONSTITUTION EXIST, THEY SHALL BEMAIN IN PALACE ONLY AS LONG AS NEEDED AND REMOVED THEREFITED. EXIST, THEY SAINL BEMAIN IN PALACE ONLY AS LONG AS NEEDED AND REMOVED THEREFITED. CELEM AND CLORED AND THE TOTAL THE PROPER POSITION, AND BE CICEM AND DECREASE AT ALL, THES. SONS THAT TOO, NOT THE PROPER POSITION, AND BE	NAMIL DE REMONTEL SIGNS INTEL ARE UNAMARELLE DE ALELL, DET RELLAGO. DURNO CONSTRUCTON SHALL DE CLEAREN REPUBLIO DE REPLACED. SIGNS ARE UNAMITED ON A SENGLE POST, ALTHOUGH THOSE WIDER THAN 36" DE LARGER THAN 10 SLFT: SHALL DE MONTHED ON THO POSTS ON ABOVE A TYPE WE	BARRICADE. SIGN POSTS DRECT BURED IN SOIL SHALL BE 2 LB. WINNIAM CHANKEL POST OR 4"X4" SIGN POSTS ORDECT BURED IN SOIL SHALL BE PARTED GREEN, WOOD POSTS SHALL BE PARTED GREEN, WOOD POSTS SHALL BE RATH OF OWNER THE WAS THE	SHALL DE IN ALCHOUMEL, BITH 3 IMPUARIO DARRING 10-3. POST MOUNTED SIGNS IN RIGHE, JARGES SHALL DE CONSTRUCTED WITH THE KEAR EDGE OF THE SCAF RYONG 5TO ZEEFE FROM THE PAYEMENT EDGE. SIGNS IN UPBLAN AREAS AND BLARRICADE MOUNTED SIGNS SHALL BE MOUNTED A AMPAILAM OF 2 FEET FROM THE PAYEMENT	EUG. 7. ALL POST AND BARRIGGE MOUNTED SIGNS MOUNTED IN URBAIN AREAS SHALL BE MOUNTED 7. ALL POST AND BARRIGGE WOUNTED SIGNS MOUNTED IN THE ROADMAY SIDEFACE. ALL POST AND BARRIGGE MOUNTED SOSK MOUNTED IN RAILAL AREAS SHALL BE MOUNTED ALL MANAMA, DISTANCE OF 7 FROM THE BOTTOM OF THE SIGN TO THE ROADMAY SURFACE. EXCEPT A MANAMA OF SYBALL BE USED THEN MOUNTED AN ADJOINT SIDE OF MANAMA OF STALL BE USED THEN MOUNTED AN ADJOINT SIDE OF MANAMA OF STALL BE USED THEN WOUNTED AN ADJOINT SIDE OF MANAMA OF STALL BE USED THEN MOUNTED AN ADJOINT SIDE OF MANAMA OF STALL BE USED THEN MOUNTED AN ADJOINT SIDE OF MANAMA OF STALL BE USED THEN MOUNTED AND ADJOINT SIDE OF MANAMA OF STALL BE USED THEN MOUNTED AND ADJOINT SIDE OF STALL BE USED THEN MOUNTED AND ADJOINT SIDE OF STALL BE USED THEN MOUNTED AND ADJOINT SIDE OF STALL BE USED THEN MOUNTED AND ADJOINT SIDE OF STALL BE USED THEN MOUNTED AND ADJOINT SIDE OF STALL BE USED THEN MOUNTED AND ADJOINT SIDE OF STALL BE USED THEN MOUNTED AND ADJOINT SIDE OF STALL BE USED THEN MOUNTED AND ADJOINT SIDE OF STALL BE USED THEN MOUNTED AND ADJOINT SIDE OF STALL BE USED THEN MOUNTED AND ADJOINT SIDE OF STALL BE USED THEN MOUNTED AND ADJOINT SIDE OF STALL BE USED THEN MOUNT SIDE OF STALL BE USED THEN MOUNTED AND ADJOINT SIDE OF STALL BE USED THEN MOUNTED AND ADJOINT SIDE OF STALL BE USED THEN MOUNTED AND ADJOINT SIDE OF STALL BE STA	MARY NORK CONDITIONS. THE SURS MANAUA MOUNTAGE RECART. THE DEWLES SHALL BE USED, TELEPRANTAY SIGNS MAY BE REPORTS FOR SURGHT TERMS SHORT DARWING, MAN BUBLE TE NO LESS THAN ONE OFFOOT ABOVE THE TRANSELD MAY. BY SHALL BE DREECT BURED IN SOLL UNLESS CONDITIONS.	ORTABLE SIGNS, OR AS APPROVED BY THE ENGINEER, CONCRETE SALLAST, OR OTHER SOLID MATERIALS SHALL NOT BE UTILIZED HTS. R. FLAGGERS, SHALL INST REFLECTION FOR STORUGE OWN.	PADOLES FLACS MAY BE USED ONLY FOR EMERGENCY STUATIONS. 9, MOST OF THE SHORN SHOWN ARE ORENIED TO THE NORTH THORSEN FOR PRESENCE AND THE COLOR THE COLOR OF MARKED AND THE COLOR OF THE CO	MODESTS THE PROPER DIRECTION OF MOVENET TO MODESTS THE PROPER DIRECTION OF MOVENET TO MODESTS THAN THE IN ADMANCE OF THE MODEST OF THE MODESTS OF THE MODEST	ADVANCE OF THE "REDUCED SPEED MEAD" SIGN. • NOTE: SUPPORTS FOR SIGNS, BARRICAGES, AND VERTICAL PARKES THAT ARE DIFFERENT FROM	THE REQUIREMENTS OF NOTARD 350 BUT MEET THE REQUIREMENTS OF NOTARD 350 OR PAWALE, FOR ASSESSING SAFETH, HARDWARE (MASH), MILL BE ACCEPTED, COPPLIANCE MITHER THE REQUIREMENTS OF NICHER 300 OR NAMALA FOR ASSESSING SAFETH, ARBIGNARE (MASH) IS	POOL TO THE PROPERTY OF THE PR	HIPO DELETED BY SO, A ADDED SON R24-1 BR-640 ADDED REPERFORCE TO ALSO BE ADDED SON R24-1 HIPO REVENUES ON RESOURTIONS HIPO REVENUES ON RESOURTIONS	0-10 REVISED NOTE 1 1-6-0 REVISED NOTE 2 1-8-00 REVISED NOTE 2	14-84 MOND MOTE	
GENERAL NOTES:	I, ALL TRAFFIC CONTROL DEV THE MANUAL ON UNFORM STANDARD HIGHRAY SIGNS, HIGHRAY ADMINISTRATION.	2. TRAFFIC CONTROL DEVICES OPERATIONS AND SHALL BE EXIST. THEY SHALL REMAIN 3. EXISTING SIGNS AND CONST CLEAN AND LEGALE AT ALL CLEAN AND CONST	MALL BE REMOVED, SIGNS DURING CONSTRUCTION SHA 4.4. SIGNS ARE USUALLY MOUNT OR LARGER THAN 10 SQ. FT	BARRICADE. 5. SIGN POSTS DRECT BURED WOOD POSTS, CHANKEL PO WHITE, ALL POSTS SHALL B REPARED AS NEEDE FOR	6. POST MOUNTED SIGNS IN RI THE SIGN FROM 6 TO 12 FI BARRICADE MOUNTED SIGNS	EDGE. 7. ALL POST AND BARBCADE. A MANAGAM DISTANCE OF TALL POST AND BARBCADE. A MANAGAM DISTANCE OF 7' EXCEPT A MANAGAM OF 6'S EXCEPT A MANAGAM OF 6'S EXCEPT A MANAGAM OF 6'S EXCEPT A TELPORARY.	INTERMEDIATE TERM STATIO SHALL BE 5. RETROREFLEC MOUNTED ON PORTABLE SU CONDITIONS. THEY SHALL B LONG-TERM STATIONARY SIN	NECESSITATE THE USE OF PADS, CONCRETE OR ROCK (WITH PORTABLE SIGN SUPPORTABLE)	W20-3 R0AD	CL OSED	STD.48"X48"	R56-I COMTROLLED	NO NO EXIT	S10. I8"XI8"	R55-I	FINES DOUBLE IN WORK ZONES	ARE PRESENT 36-x60* USE 6" C LETTERS USE 4" D LETTERS
R4-2 PASS	CARE	STD. 24"X30" EXPWY, 36"X48" FWY, 48"X60"	MI-2		STD, 36-x36" FWY, 48-x48"	Z-4/N	==>	STD. 36-X36" FWY, 48-X48"	W20-2 DETOUR	XXXX	STD. 48"X48"	M-4b		STD. 48"X48"	M4-10	DETOUR	48"X8"
R4-1 DO MOT	PASS	STD. 24-x30" EXPWr. 36-x48" FWr. 48-x60"	T-IA	(t)	STD. 36-X36" FWY, 48-X48"	W3-2		STD. 36"X36" SPECIAL 48"X48"	W20-I ROAD	NXXX XXXX	STO. 48"X48"	W24-I		STD. 36-x36"	M4-9	DETOUR	STD, 30°X24° SPECIAL 46°X36° SPECIAL 60°X48°
W3-5a XX MPH	SPEED ZONE AHEAD	STO. 36"X36" EXPNY. 48"X48" FNY. 48"X48"	W21-5a	SHOULDER CLOSED	STO, 36"X36" FWY, 48"X48"	W3-1		STD, 36"X36" SPECIAL 48"X48"	M(3-1	M.P.H.	STD, 24"X24"	W2I-5	SHOULDER	STD. 30"×30" SPECIAL 36"×36"	OM-3L OM-3R	-VELLOR	P.*X36*
W3-5		SID, 36"X36" EXPWY, 48"X48" FWY, 48"X48"	RII-4	ROAD CLOSED TO THRU TRAFFIC	60"X30"	8-14	\$10. BFX24"	SPECIAL 24*X30* EXPNY, 30*X36* FWY, 36*X48*	W9-2 LANE ENDS	MERCE	510, 36"X36" FWY, 48"X48"	W21-2		STD, 30"X30" SPECIAL 36"X36"	620-2	END ROAD WORK	48-724-
R2-I SPEED LIMIT	20	STD. 24"X30" EXPWY, 36"X48" FWY, 48"X60"	RII-3A	ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY	60"X30"	9-1#		SPECIAL 60"X30"	W8-7	GRAVEL	EXPW, 36"X36" FWY, 48"X48"	#20-70	2 005 005 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	34. STO. 36"X36" FWY, 48"X48"	C20-l	ROAD WORK	60-724-
RI-2	>	STD, 36"X36"X36" EXPWY, 48"X48" FWY, 60"X60"X60"	RII-2	ROAD CLOSED	48"X30"	M-4		STD. 48"X48"	W6-3		EXPWY, 36"X36" SPECIAL 48"X48"	W20-5	XXXX CLOSED	STD. 48"X48"	6-8#	LOW SHOULDER	STD. 36-X36- FWY. 48-X48"
- is		STANDARD 30-X30" EXPRESSMAY 36-X36" SPECIAL 48"X48"	R5-i	DO NOT	STD, 30°X30° EXPWY, 36°X36° SPECIAL 48°X48°	WI-3		STD. 48"X48"	#5-i ROAD	NARROWS	STO. 36"X36" SPECIA 48"X48"	N20-4	ROAD XXXX	STD. 46"X46"	II-8#	UNEVEN	S10. 36-x36- FWY. 48-x48-







ARKANSAS STATE HIGHWAY COMMISSION



STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION

EDITION OF 2014

PROPOSAL DOCUMENTS
AND
SCHEDULE OF ITEMS

ARKANSAS STATE HIGHWAY COMMISSION

PROPOSAL DOCUMENTS

PROPOSAL FOR CONSTRUCTING:

THE PURPOSE OF THIS PROJECT IS TO OVERLAY APPROXIMATELY 1.71 MILES OF CITY STREETS IN THE CITY OF HOLLY GROVE IN MONROE COUNTY. THIS PROJECT CONSISTS OF REMOVAL AND DISPOSAL ITEMS, ACHM SURFACE COURSE, ACHM PATCHING OF EXISTING ROADWAY, R.C. PIPE CULVERTS, MAINTENANCE OF TRAFFIC, WHEELCHAIR RAMPS, AND MISC. ITEMS.

City Street VARIOUS in MONROE County, Arkansas, in accordance with Standard Specifications for Highway Construction, Edition of 2014; the Supplemental Specifications and Special Provisions attached hereto; and the Construction Plans on file in the Office of the State Highway Commission, designated as

Job C48002

STATE AID CITY JOB (CODE 9971)

Job Name: HOLLY GROVE OVERLAY (SEL. SECS.) (S)

said project being approximately 1.71 miles in length.

Proposal received until 10:00 a.m. on April 10, 2019

TO THE ARKANSAS STATE HIGHWAY COMMISSION:

Gentlemen: By submission of your bid, you agree to the following:

It is hereby certified that a careful examination has been made of the Plans, Specifications, Supplemental Specifications, Special Provisions, and Form of Contract and the site of the work throughout its whole extent. On the basis of the Plans, Specifications, Supplemental Specifications, Special Provisions, and Form of Contract, the bidder proposes to furnish all necessary machinery, equipment, tools, labor and other means of construction, and to furnish all materials as specified, in the manner and at the time prescribed, and to finish the entire project within the time hereinafter proposed. The bidder understands that the quantities of work mentioned herein are approximate only, and are subject to increase or decrease, and hereby proposes to perform all quantities of work, whether increased or decreased, in accordance with the provisions of the Specifications, and at the unit prices bid in the attached Schedule of Items.

Receipt is hereby specifically acknowledged, and complete examination expressly guaranteed of the following:

- 1. Standard Specifications for Highway Construction, Edition of 2014.
- 2. Supplemental Specifications.
- 3. Special Provisions.
- 4. Proposal Documents.
- Schedule of Items. 5.
- Construction Plans.

The bidder further proposes to perform all Extra Work that may be required, on the basis provided in the Specifications, and to give such work personal attention, and to secure economical performance.

The bidder further proposes to execute the contract agreement, and to furnish satisfactory bonds within ten days after he has received notice that he has been awarded the contract. The bidder further agrees to begin work when ordered by the Engineer, or within ten days thereafter, and to complete the work within twenty (20) working days.

PROPOSAL DOCUMENTS

(Continued)

The bidder also proposes to furnish a surety Performance bond or bonds in a sum equal to the full amount of the contract and a surety Payment bond or bonds in a sum equal to 80% of the full amount of the contract. These bonds shall not only serve to guarantee the completion of the work and payment of all bills and claims by the bidder, but also to guarantee the excellence of both workmanship and material until the work is finally accepted and the provisions of the Plans, Specifications and Special Provisions fulfilled.

The bidder shall furnish a Proposal Guaranty in the form specified in Subsection 102.09 of the Specifications, in the amount of five percent (5%) of the total amount bid, which is submitted as a guarantee of the good faith of the proposal, and that the Bidder will enter into written contract, as provided, to do the work should the award be made to him; and it is hereby agreed that if, at any time other than as provided in Subsection 102.11 of the Standard Specifications, Withdrawal/Modification of Proposals, the bidder should withdraw his proposal, or should fail to execute the contract and furnish satisfactory bonds as herein provided, if his proposal is accepted, the Arkansas State Highway Commission, in either of such events, shall be entitled and is hereby given the right to retain the Proposal Guaranty, not as a penalty, but as liquidated damages, it being understood and agreed by the bidder that the amount of the Proposal Guaranty is a reasonable sum to be fixed as liquidated damages considering the damages the Arkansas State Highway Commission will sustain in the event of the bidder's withdrawal of his proposal, or failure to execute the contract and furnish satisfactory bonds if his proposal is accepted, and said amount is herein agreed upon and fixed as liquidated damages because of the difficulty of ascertaining the exact amount of damage that may be sustained by reason of the above set out circumstances.

Arkansas Department of Transportation Schedule of Items

State Job No.: C48002 Date Estimated: 2/7/2019

Date Revised:

Job Name: HOLLY GROVE OVERLAY (SEL. SECS.) (S)

Federal Aid Project: 9971

Estimated Unit Bid Price Line Price Number Item Code and Description Quantity Extension Section 01 - PROPOSAL ITEMS 0001 202 - REMOVAL AND DISPOSAL OF WALKS 11.000 SQYD 0002 SS&401 - TACK COAT 1,866.000 GAL 0003 SPSS407 - MINERAL AGGREGATE IN ACHM 2,035.000 TON SURFACE COURSE (3/8") 0004 SPSS407 - ASPHALT BINDER (PG 64-22) IN 118.000 TON ACHM SURFACE COURSE (3/8") (MINIMUM BID \$120.00) 75.000 TON 0005 SPSS415 - ACHM PATCHING OF EXISTING **ROADWAY** 0006 603 - MAINTENANCE OF TRAFFIC 1.000 L.S. 360.000 SQFT 0007 SS&604 - SIGNS SPSS606 - 18" SIDE DRAIN 16.000 LF 8000 0009 641 - WHEELCHAIR RAMPS (TYPE 3) 20.000 SQYD Section 01 Total: Subtotal: 0010 601 - MOBILIZATION (UNIT BID AMOUNT 1.000 L.S. MAY NOT EXCEED 5% OF SUBTOTAL) Bid Total:

12/15/11 Page 1 of 2

12/15/11 Rev. 11/17/17

ARKANSAS DEPARTMENT OF TRANSPORTATION SUPPLEMENT TO PROPOSAL ANTI-COLLUSION AND DEBARMENT CERTIFICATION

FAILURE TO EXECUTE AND SUBMIT THIS CERTIFICATION SHALL RENDER THIS BID NONRESPONSIVE AND NOT ELIGIBLE FOR AWARD CONSIDERATION.

As a condition precedent to the acceptance of the bidding document for this project, the bidder shall file this Affidavit executed by, or on behalf of the person, firm, association, or corporation submitting the bid. The original of this Affidavit shall be filed with the Arkansas Department of Transportation at the time proposals are submitted.

AFFIDAVIT

I hereby certify, under penalty of perjury under the laws of the United States and/or the State of Arkansas, that the bidder listed below has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with the submitted bid for this project, is not presently barred from bidding in any other jurisdiction as a result of any collusion or any other action in restraint of free competition, and that the foregoing is true and correct.

Further, that except as noted below, the bidder, or any person associated therewith in the capacity of owner, partner, director, officer, principal investigator, project director, manager, auditor, or any position involving the administration of Federal funds:

- a. is not currently under suspension, debarment, voluntary exclusion, or determination of ineligibility by any Federal, State, or Local agency;
- b. has not been suspended, debarred, voluntarily excluded or determined ineligible by any Federal, State, or Local agency within the past 3 years;
- c. does not have a proposed debarment pending; and
- d. has not been indicted, convicted, or had an adverse civil judgment rendered by a court of competent jurisdiction in any matter involving fraud or official misconduct within the past 3 years.

12/15/11 Rev. 11/17/17

(NOTARY SEAL)

ARKANSAS DEPARTMENT OF TRANSPORTATION SUPPLEMENT TO PROPOSAL ANTI-COLLUSION AND DEBARMENT CERTIFICATION

FAILURE TO EXECUTE AND SUBMIT THIS CERTIFICATION SHALL RENDER THIS BID NONRESPONSIVE AND NOT ELIGIBLE FOR AWARD CONSIDERATION.

EXCEPTIONS:							
APPLIED TO	INITIATING AGENCY	DATES OF ACTION					
Exceptions will not necessarily result in esponsibility. Providing false informations.	n denial of award, but will be constion may result in criminal prosec	sidered in determining bidder ution or administrative					
ob No.		(Name of Bidder)					
F.A.P. No.		(Name of Bidder)					
A.P. NO.		(Signature)					
(Date Executed)	(Ti	(Title of Person Signing)					
The following Notary Public certification contractor's discretion.	on is <u>OPTIONAL</u> and may or ma	ay not be completed at the					
State of))ss.						
County of							
	, being duly sworn, dep	oses and says that he is					
	of						
(Title) and that the above statements are true a	(Name of Bidde and correct.	r)					
Subscribed and Sworn to before me thi My commission expires:		, 20					
		(Notary Public)					

ARKANSAS DEPARTMENT OF TRANSPORTATION SUPPLEMENT TO PROPOSAL RESTRICTION OF BOYCOTT OF ISRAEL CERTIFICATION

Pursuant to Arkansas Code Annotated § 25-1-503, a public entity **shall not** enter into a contract valued at \$1,000 or greater with a company unless the contract includes a written certification that the person or company is not currently engaged in, and agrees for the duration of the contract not to engage in, a boycott of Israel.

By signing below, the Contractor agrees and certifies that they do not boycott Israel and will not boycott Israel during the remaining aggregate term of the contract.

If a company does boycott Israel, see Arkansas Code Annotated § 25-1-503.

Bid Number/Contract Number		
Description of product or service		
Contractor name		
<u>_</u>	5.4	
Contractor Signature:	 Date:	